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1957-1958

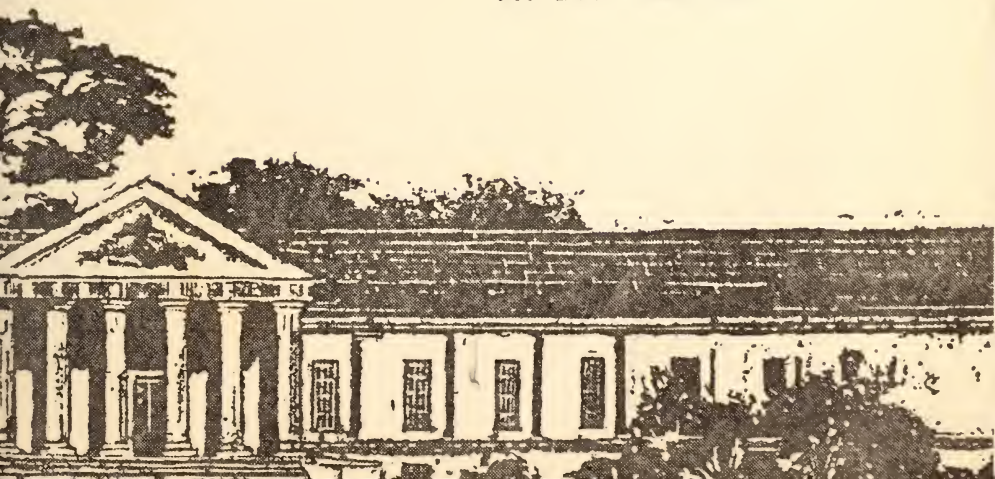


IVERSITY OF MARYLAND

THE SCHOOL OF

**medicine**

AT BALTIMORE



## IMPORTANT

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## NOTE

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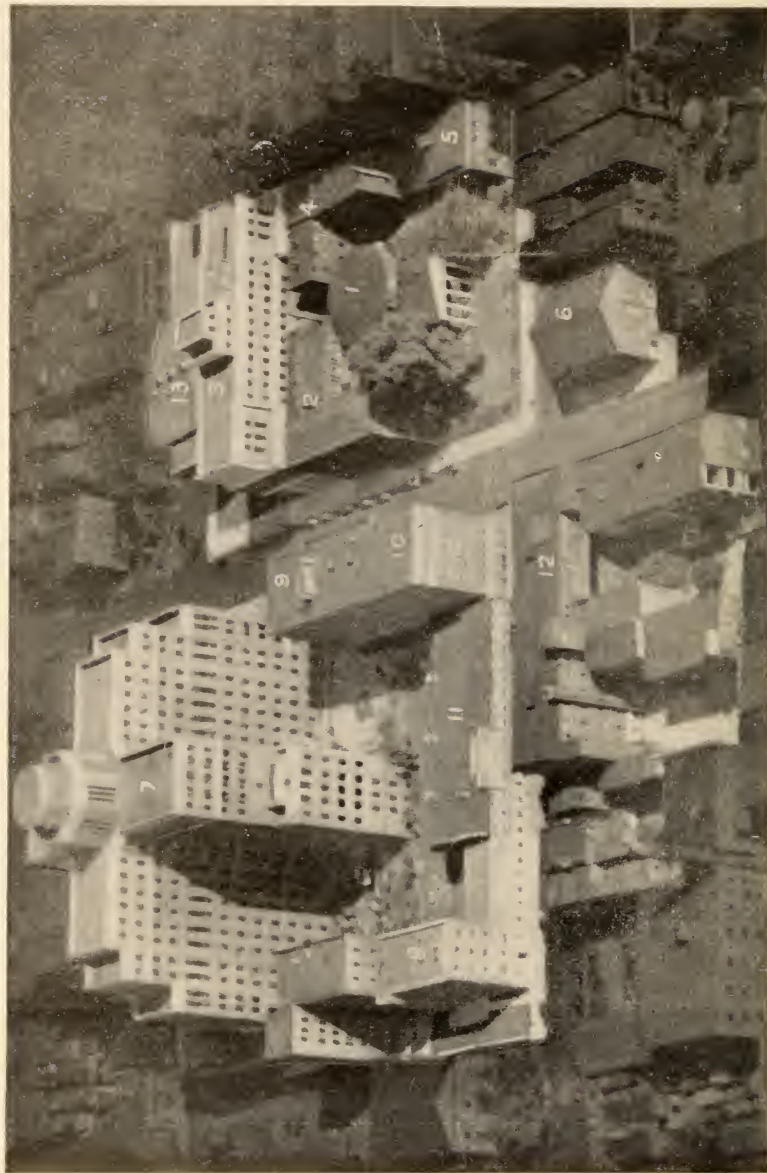
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# BALTIMORE SCHOOLS—UNIVERSITY OF MARYLAND

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| 1. Original Medical Building     | 5. Administration Building, College | 9. School of Pharmacy             |
| 2. Laboratory Building, Medicine | of Education, Baltimore Division    | 10. School of Dentistry           |
| 3. Bressler Building, Medicine   | 6. Medical Library                  | 11. Dental Clinic                 |
| 4. Gray Laboratory, Student's    | 7. University Hospital              | 12. Out-Patient Clinics, Medicine |
|                                  | 8. School of Pharmacy               | 13. School of Law                 |
|                                  | 9. School of Dentistry              |                                   |
|                                  | 10. Dental Clinic                   |                                   |
|                                  | 11. Out-Patient Clinics, Medicine   |                                   |
|                                  | 12. School of Law                   |                                   |

Bulletin of the

*School of Medicine*

UNIVERSITY OF MARYLAND

*September, 1957*

Announcements for  
The One Hundred Fifty-Second Academic Session  
1957-1958

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Catalogue of  
The One Hundred Fifty-First Academic Session  
1956-1957





University Hospital Showing the Psychiatric Institute in the Foreground



The Frank C. Bressler Research Laboratory

1957

1958

## JANUARY 1957

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# CALENDAR

ACADEMIC YEAR—SEPTEMBER 12, 1957 TO JUNE 7, 1958

1957

September 4, 5

Reexaminations for advancement

FIRST SEMESTER—September 12, 1957 to January 25, 1958

September 10	Tuesday	*Registration, payment of fees, freshmen and sophomores
September 11	Wednesday	*Registration, payment of fees, all other students
September 12	Thursday	Instruction begins at 8:00 a.m.
November 26	Tuesday	Instruction suspended at 5:00 p.m. Thanksgiving Holiday
December 2	Monday	Instruction resumed at 8:00 a.m.
December 21	Saturday	Instruction suspended at 1:00 p.m. Christmas Holiday

1958

January 2	Thursday	Instruction resumed at 8:00 a.m.
January 20	Monday	*Payment of fees for second semester
January 25	Saturday	First semester completed, 1:00 p.m.

SECOND SEMESTER—January 27 to June 7, 1958

January 27	Monday	Second semester begins at 8:00 a.m.
February 22	Saturday	Holiday—Washington's Birthday
March 29	Saturday	Freshman and Sophomore classes suspended at 1:00 p.m. Easter Holiday
April 2	Wednesday	Junior and Senior classes suspended at 5:00 p.m. Easter Holiday
April 7	Monday	Instruction resumed at 8:00 a.m.
May 24	Saturday	Freshman and Sophomore classes cease at 5:00 p.m.
May 26	Monday	Freshman and Sophomore examinations begin
May 30	Friday	Holiday—Memorial Day
June 3	Tuesday	Senior classes cease at 5:00 p.m.
June 6	Friday	Junior classes cease at 5:00 p.m.
June 7	Saturday	Commencement

\*All students are expected to complete their registration, including the payment of bills on regular registration days. Those who do not complete their registration on the prescribed days will be charged a fee of \$5.00.

The offices of the registrar and comptroller are open daily from 9:00 a.m. to 4:00 p.m., and Saturday from 9:00 a.m. to 12:00 noon.





## BOARD OF REGENTS

### AND

## MARYLAND STATE BOARD OF AGRICULTURE

	<i>Term Expires</i>
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B. HERBERT BROWN, Secretary, 12 West Madison Street, Baltimore.....	1960
HARRY H. NUTTLE, Treasurer, Denton.....	1957
LOUIS L. KAPLAN, Assistant Secretary, 1201 Eutaw Place, Baltimore.....	1961
EDMUND S. BURKE, Assistant Treasurer, Cumberland.....	1959
WILLIAM P. COLE, JR., 100 West University Parkway, Baltimore.....	1958
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C. EWING TUTTLE, 1114 St. Paul Street, Baltimore.....	1962
THOMAS B. SYMONS, 7410 Columbia Avenue, College Park.....	1963
THOMAS W. PANGBORN, Hagerstown.....	1965

Members of the Board are appointed by the Governor of the State for terms of nine years each, beginning the first Monday in June.

The President of the University of Maryland is, by law, Executive Officer of the Board.

The State law provides that the Board of Regents of the University of Maryland shall constitute the Maryland State Board of Agriculture.

A regular meeting of the Board is held the last Friday in each month, except during the months of July and August.

## ADMINISTRATIVE OFFICERS

## SCHOOL OF MEDICINE

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William S. Stone, M.S., M.D., D.Sc.,	<i>Director, Medical Education and Research, and Dean</i>
Dietrich C. Smith, B.A., M.A., Ph.D.,	<i>Associate Dean, Admissions and Student Affairs</i>
Robert T. Parker, A.B., M.D.	<i>Associate Dean, Curriculum</i>
Norma J. Azlein, A.B.	<i>Registrar</i>
G. Watson Algire, M.S.	<i>Director of Admissions and Registrations</i>

# SCHOOL OF MEDICINE

## FACULTY OF MEDICINE

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CHARLES BAGLEY, JR., M.A., M.D.	Professor of Neurological Surgery, Emeritus
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ANDREW C. GILLIS, M.A., M.D., D.Sc., LL.D.	Professor of Neurology, Emeritus
FRANK W. HACHTEL, M.D.	Professor of Bacteriology, Emeritus
J. MASON HUNDLEY, JR., M.D.	Professor of Gynecology, Emeritus
F. L. JENNINGS, M.D.	Professor of Clinical Surgery, Emeritus
CHARLES W. MAXSON, M.D.	Associate Professor of Surgery, Emeritus
HARRY M. ROBINSON, SR., M.D.	Professor of Dermatology, Emeritus
IRVING J. SPEAR, M.D.	Professor of Neurology, Emeritus
HUGH R. SPENCER, M.D.	Professor of Pathology, Emeritus
W. HOUSTON TOULSON, M.D.	Professor of Urology, Emeritus
HENRY J. WALTON, M.D.	Professor of Roentgenology, Emeritus
WALTER D. WISE, M.D.	Professor of Surgery, Emeritus
WAITMAN F. ZINN, M.D.	Professor of Otolaryngology, Emeritus

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SAMUEL P. BESSMAN	JOHN C. KRANTZ, JR.	THOMAS J. BURKART
CLIFFORD BLITCH	H. PATTERSON MACK	ENOCH CALLAWAY
FERNANDO G. BLOEDORN	JOHN OZAZEWSKI	ERNEST T. CORNBROOKS
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RAYMOND L. CLEMMENS	IDA M. ROBINSON	DOROTHY HOLZWORTH
EDWARD F. COTTER	MILTON S. SACKS	HENRICUS KUYPERS
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EVERETT S. DIGGS	ANDREW G. SMITH	WILLIAM MAGRUDER
J. SHELDON EASTLAND	RUBY SMITH	PATRICK C. PHELAN, JR.
FREDERICK P. FERGUSON	JOE L. STOCKARD	AUBREY RICHARDSON
FRANK H. J. FIGGE	CHARLES VAN BUSKIRK	LEONARD SCHERLIS
JACOB E. FINESINGER	RAYMOND E. VANDERLINDE	MELCHIJAH SPRAGINS
A. H. FINKELSTEIN	JOHN A. WAGNER	EDWARD B. TRUITT, JR.
ROBERT G. GRENELL	GIBSON J. WELLS	FRANK D. VASINGTON
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MARTIN HELRICH	THEODORE E. WOODWARD	JOHN E. SAVAGE
HARRY C. HULL	GEORGE H. YEAGER	BENJAMIN H. SWEET

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CLIFFORD BLITCH  
J. EDMUND BRADLEY  
ROBERT W. BUXTON  
JOHN M. DENNIS  
EVERETT S. DIGGS  
FREDERICK P. FERGUSON

FRANK H. J. FIGGE  
JACOB E. FINESINGER  
HARLAN I. FIRMINGER  
ARTHUR L. HASKINS  
MARTIN HELRICH  
JOHN C. KRANTZ, JR.  
HARRY P. MACK  
JOHN C. OZAZEWSKI

MAURICE C. PINCOFFS  
HARRY M. ROBINSON, JR.  
MILTON S. SACKS  
EMIL G. SCHMIDT  
DIETRICH C. SMITH  
CHARLES L. WISSEMAN, JR.  
THEODORE E. WOODWARD

## MEMBERS OF THE UNIVERSITY SENATE

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FREDERICK P. FERGUSON  
JOHN C. KRANTZ, JR.

MILTON S. SACKS  
DIETRICH C. SMITH  
WILLIAM S. STONE, Dean, Ex-Officio

## DEPARTMENT OF ANATOMY

FRANK H. J. FIGGE, Professor of Anatomy and Head of the Department.  
A.B., Colorado College, 1927; Ph.D., University of Maryland, 1934.

HARRY C. BOWIE, Associate in Clinical Anatomy.  
B.S., University of Maryland, 1933; M.D., 1936.

OTTO C. BRANTIGAN, Professor of Clinical Anatomy.  
B.S., Northwestern University, 1931; M.D., 1934.

ROGER H. DAVIDHEISER, Assistant in Anatomy.  
B.S., University of Pittsburgh, 1948; M.S., University of New Hampshire, 1951.

DORIS L. GARDNER, Assistant in Anatomy.  
B.S., Bucknell University, 1952.

WILLIAM A. HOLBROOK, Instructor in Anatomy.  
B.S., University of Maryland, 1942; M.D., 1945.

VERNON E. KRAHL, Associate Professor of Anatomy.  
B.S., University of Pittsburgh, 1939; M.S., 1940; Ph.D., University of Maryland, 1946.

HENRICUS G. J. M. KUYPERS, Assistant Professor of Anatomy.  
Ph.D., University of Leiden, 1952; M.D., 1954.

HENRY E. LANGENFELDER, Assistant in Anatomy.  
B.A., Johns Hopkins University, 1947; M.D., Hahnemann Medical College, 1951.

THEODORE F. LEVEQUE, Assistant Professor of Anatomy.  
B.A., University of Denver, 1949; M.S., 1950; Ph.D., University of Colorado, 1954.

HARRY PATTERSON MACK, Associate Professor of Anatomy.  
M.D., University of Maryland, 1948.

ROBERT EUGENE McCAFFERTY, Instructor in Anatomy.  
B.S., Grove City College, 1943; M.S., University of Pittsburgh, 1948; Ph.D., 1951.



ZENAS A. McDONALD, Assistant in Anatomy.

A.B., Mercer University, 1952.

KARL FREDERICK MECH, Assistant Professor of Anatomy.

B.S., University of Maryland, 1932; M.D., 1935.

WILLIAM R. MEHLER, Assistant in Anatomy.

B.S., John Carroll University, 1949; M.S., St. Louis University, 1951.

WALLE J. H. NAUTA, Professor of Anatomy.

M.D., University of Utrecht, 1942; Ph.D., 1945.

ROSS Z. PIERPONT, Associate in Clinical Anatomy.

B.S., University of Maryland, 1939; M.D., 1940.

HERBERT E. REIFSCHNEIDER, Associate in Clinical Anatomy.

A.B., Johns Hopkins University, 1922; M.D., University of Maryland, 1927.

ELWYN A. SAUNDERS, Instructor in Anatomy.

B.S., The Citadel, 1949; M.S., Graduate School of the Medical College of South Carolina, 1952; M.D., Medical College of South Carolina, 1955.

WILLIAM BOOTH SETTLE, Assistant Professor of Clinical Anatomy.

A.B., University of Pennsylvania, 1930; M.D., 1933.

EDUARD UHLENHUTH, Research Professor of Anatomy.

Ph.D., University of Vienna, 1909.

WILLIAM WALLACE WALKER, Associate Professor of Clinical Anatomy.

B.S., West Virginia University, 1921; M.D., University of Maryland, 1923.

## DEPARTMENT OF ANESTHESIOLOGY

MARTIN HELRICH, Professor of Anesthesiology and Head of the Department.

B.S., Dickinson College, 1946; M.D., University of Pennsylvania, 1946.

FRANCIS F. CHANG, Clinical Instructor in Anesthesiology.

B.S., St. John's University, Shanghai, 1944; M.D., 1947.

LOUIS A. FRITZ, Instructor in Anesthesiology.

B.S. Loyola College of Baltimore, 1948; M.D., University of Maryland, 1944.

THOMAS D. GRAFF, Instructor in Anesthesiology.

A.B., Haverford College, 1949; M.D., Temple University, 1953.

PAUL R. HACKETT, Associate Professor of Anesthesiology.

B.A., Denison University, 1945; M.D., Western Reserve University, 1949.

DOROTHY HOLZWORTH, Associate in Anesthesiology.

A.B., Notre Dame of Maryland, 1944; M.A., Catholic University of America, 1946; M.D., George Washington University, 1950.

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M.D., National Sun Yet-Sen University, Canton, 1947.

JOHN R. MARSHALL, Instructor in Anesthesiology.

A.B., University of Kansas, 1945; M.D., 1949.

ALFRED T. NELSON, Clinical Professor of Anesthesiology.

M.D., University of Maryland, 1943.

ELIZABETH Y. PAHK, Clinical Instructor in Anesthesiology.

M.D., Seoul Women's Medical College, 1947.

NARCISSE PATALINGHUG, Instructor in Anesthesiology.

M.D., Santo Tomas University, 1952.

OTTO C. PHILLIPS, Clinical Associate Professor of Anesthesiology.

A.B., Johns Hopkins University, 1938; M.D., University of Maryland, 1942.

JAMES RUSSO, Instructor in Anesthesiology.

B.S., Ursinus College, 1939; M.D., Jefferson Medical College, 1944.

PETER SAFAR, Clinical Associate Professor of Anesthesiology.

M.D., University of Vienna, 1948.

DOUGLAS H. SMITH, Instructor in Anesthesiology.

A.B., Syracuse University, 1949; M.D., State University of New York, 1953.

THEODORE E. STACY, JR., Clinical Instructor in Anesthesiology.

Ph.G., University of Maryland, 1923; M.D., 1928.

## DEPARTMENT OF BIOLOGICAL CHEMISTRY

EMIL G. SCHMIDT, Professor of Biological Chemistry and Head of the Department.

B.S., University of Wisconsin, 1921; M.S., 1923; Ph.D., 1924; LL.B., University of Maryland, 1934.

ANN VIRGINIA BROWN, Instructor in Biological Chemistry.

A.B., Goucher College, 1940.

EDWARD JOHN HERBST, Associate Professor of Biological Chemistry.

B.S., University of Wisconsin, 1943; M.S., 1944; Ph.D., 1949.

ARLIE BIEMILLER PARKER, Junior Instructor in Biological Chemistry.

A.B., Goucher College, 1954.

WILLIAM HENRY SUMMERSON, Lecturer in Biological Chemistry.

B.Chem., Cornell University, 1927; M.A., 1928; Ph.D., 1937.

RAYMOND E. VANDERLINDE, Associate Professor of Biological Chemistry.

A.B., Syracuse University, 1944; M.S., 1945; M.S., 1947; Ph.D., 1950.

FRANK D. VASINGTON, Assistant Professor of Biological Chemistry.

A.B., University of Connecticut, 1950; M.S., 1952; Ph.D. University of Maryland, 1955.

## DEPARTMENT OF MEDICINE

THEODORE E. WOODWARD, Professor of Medicine and Head of the Department.

B.S., Franklin and Marshall College, 1934; M.D., University of Maryland, 1938; D.Sc. (Hon.), Western Maryland College, 1950; D.Sc. (Hon.), Franklin and Marshall College, 1954.

CONRAD B. ACTON, Associate in Medicine.

B.S., Haverford College, 1925; M.D., Johns Hopkins University, 1929.

MARIE AMELIA ANDERSCH, Associate Professor of Biochemistry in Medicine.

B.S., University of Illinois, 1926; M.S., State University of Iowa, 1932; Ph.D., 1934.

ANDERS W. ANDERSON, Assistant in Medicine.

D.D.S., University of Maryland, 1921; M.D., 1929.

LEON ASHMAN, Associate in Medicine.

B.S. College of the City of New York, 1927; M.D., University of Maryland, 1932.

DAVID BACHARACH, Instructor in Dermatology.

B.A., St. John's College, 1938; M.D., University of Maryland, 1942.

\*ALICE MESSINGER BAND, Associate in Medicine.

B.A., University of Rochester, 1945; M.D., Boston University, 1949.

ROBERT EDWARD BAUER, Assistant Professor of Medicine and Co-Director, Division of Radioactive Isotopes.

B.A., Johns Hopkins University, 1943; M.D., University of Maryland, 1946.

EDMUND GEORGE BEACHAM, Assistant Professor of Medicine.

B.S., University of Maryland, 1936; M.D., 1940.

GEORGE BECK, Assistant in Medicine.

A.B., Western Maryland College, 1949; M.D., University of Maryland, 1953.

EUGENE SYDNEY BERESTON, Assistant Professor of Dermatology.

B.A., Johns Hopkins University, 1933; M.D., University of Maryland, 1937; M.S., University of Pennsylvania, 1945; D.Sc., 1955.

BARNETT BERMAN, Assistant in Medicine.

B.S., B.M., M.D., Northwestern University, 1949.

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B.A., University of Delaware, 1930; M.D., University of Maryland, 1934.

FRANCIS JOSEPH BORGES, Associate in Medicine and Assistant Head of Hypertensive Clinic.

B.S., University of Maryland, 1948; M.D., 1950.

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B.S., Loyola College, 1946; M.D., University of Maryland, 1950.

HOWARD MATHESON BUBERT, Associate Professor of Medicine.

M.D., University of Maryland, 1920.

WILLIAM ROSS BUNDICK, Associate in Dermatology.

M.D., University of Maryland, 1941.

BERNARD BURGIN, Instructor in Medicine.

B.A., University of Cincinnati, 1936; M.D., 1939.

MARSHALL PAUL BYERLY, Associate in Medicine.

M.D., University of Maryland, 1925.

T. NELSON CAREY, Professor of Clinical Medicine.

M.D., University of Maryland, 1927.

DOUGLASS G. CARROL, Assistant Professor of Medicine.

A.B., Yale University, 1937; M.D., Johns Hopkins University, 1942.

FRANCIS P. CHINARD, Assistant Professor of Medicine.

A.B., University of California, 1937; M.D., Johns Hopkins University, 1941.

B. STANLEY COHEN, Instructor in Medicine.

M.D., University of Maryland, 1947.

JONAS H. COHEN, Associate in Medicine.

B.A., Johns Hopkins University, 1936; M.D., 1940.

MORRIS M. COHEN, Associate in Dermatology.

B.S., M.D., University of Pittsburgh, 1937.

THOMAS CONNOR, Assistant Professor of Medicine and Head, Division of Endocrinology and Metabolism.

A.B., Loyola College of Baltimore, 1943; M.D., University of Maryland, 1946.

ELMER ELLSWORTH COOK, JR., Assistant in Medicine.

B.A., University of Maryland, 1940; M.D., 1943.

EDWARD F. COTTER, Associate Professor of Medicine; Associate in Neurology.

M.D., University of Maryland, 1935.

WILLIAM F. COX, III, Associate in Medicine.

A.B., Amherst College, 1946; M.D., Jefferson Medical College, 1947.

ERNEST CROSS, JR., Instructor in Medicine.

A.B., Johns Hopkins University, 1937; M.D., 1941.

JOHN R. DAVIS, Instructor in Medicine.

B.A., West Virginia University, 1938; M.D., University of Maryland, 1942.

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B.S., Loyola College of Baltimore, 1949; M.D., University of Maryland, 1953.

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B.S., University of Maryland, 1939; M.D., 1943.

RAYMOND M. CUNNINGHAM, Instructor in Pathology.

B.S., Loyola College of Baltimore, 1935; M.D., University of Maryland, 1939.

FRANCIS A. ELLIS, Assistant Professor of Pathology.

B.A., Johns Hopkins University, 1921; M.D., University of Maryland, 1925.

RUSSELL S. FISHER, Professor of Forensic Pathology and Head, Division of Forensic Pathology.

B.S., Georgia School of Technology, 1937; M.D., Medical College of Virginia, 1942.

HENRY C. FREIMUTH, Associate Professor of Forensic Pathology.

B.S., College of the City of New York, 1932; M.S., New York University, 1933; Ph.D., 1938.

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B.A., Johns Hopkins University, 1951; M.D., University of Maryland, 1955.

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B.S., University of Maryland, 1934; M.D., 1938.

JOSEPH P. GILLOTTE, Assistant in Pathology.

B.S., University of Maryland, 1951; M.D., 1953.

ALBERT E. GOLDSTEIN, Assistant Professor of Pathology.

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PAUL F. GUERIN, Assistant Professor of Forensic Pathology.

A.B., Wittenburg College, 1942; M.D., University of Pennsylvania, 1945.

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JEAN V. KEARNEY, Assistant in Pathology.

LESTER KIEFER, Associate in Pathology.

B.S., University of Maryland, 1943; M.D., University of Pennsylvania, 1953.

RICHARD LINDENBERG, Assistant Professor of Forensic Pathology.

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B.S., University of Nebraska, 1941; M.D., University of Colorado, 1944.

HOWARD B. MAYS, Instructor in Pathology.

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URSULA T. SLAGER, Associate in Pathology.

B. A., Wellesley College, 1948; M.D., University of Maryland, 1952.

JOHN A. WAGNER, Professor of Neuropathology and Head, Division of Neuropathology (Acting Head of the Department July 1, 1956 to June 30, 1957).

B.S., Washington College, 1934; M.D., University of Maryland, 1938.

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A.B., Western Maryland College, 1924; M.D., University of Maryland, 1928.

TOBIAS WEINBERG, Associate Professor of Pathology.

B.A., Johns Hopkins University, 1930; M.D., 1933.

ROBERT B. WRIGHT, Associate Professor of Pathology.

B.S., Centre College, 1920; M.D., Johns Hopkins University, 1924.

## DEPARTMENT OF PEDIATRICS

J. EDMUND BRADLEY, Professor of Pediatrics and Head of the Department.

B.S., Loyola College, 1928; M.D., Georgetown University, 1932.

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SAMUEL P. BESSMAN, Associate Professor of Pediatrics.

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ANNIE MARTHA BESTEBREURTJE, Assistant Professor of Pediatrics.

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JAMES MILTON BISANAR, Assistant in Pediatrics.

M.D., University of Maryland, 1948.

LESTER HAROLD CAPLAN, Instructor in Pediatrics.

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THOMAS A. CHRISTENSEN, Instructor in Pediatrics.

B.S., Holy Cross College, 1931; M.D., Georgetown University, 1935.

RAYMOND L. CLEMMENS, Instructor in Pediatrics and Director of the Developmental clinic.

B.S., Loyola College of Baltimore, 1947; M.D., University of Maryland, 1951.

GRANGE S. COFFIN, Instructor in Pediatrics.

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JOSEPH M. CORDI, Instructor in Pediatrics.

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EDWARD G. FIELD, Instructor in Pediatrics.

B.S., Hampden-Sydney College, 1942; M.D., Medical College of Virginia, 1945.

JEROME FINEMAN, Assistant Professor of Pediatrics.

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ABRAHAM HARRY FINKELSTEIN, Associate Professor of Pediatrics.

M.D., University of Maryland, 1927.

KURT GLASER, Assistant Professor of Pediatrics.

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SAMUEL S. GLICK, Assistant Professor of Pediatrics.

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HOWARD GOODMAN, Instructor in Pediatrics.

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MARY L. HAYLECK, Instructor in Pediatrics.

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CLEWELL HOWELL, Associate in Pediatrics.

B.S., Davidson College, 1919; M.D., University of Maryland, 1924.

DAVID JOSEPHS, Assistant in Pediatrics.

A.B., University of North Carolina, 1943; M.D., Medical College of Virginia, 1947.

C. LORING JOSLIN, Professor of Pediatrics.

M.D., University of Maryland, 1912.

JOHN M. KRAGER, Assistant in Pediatrics.

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ARNOLD F. LAVENSTEIN, Instructor in Pediatrics.

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ENNIS C. LAYNE, Instructor in Pediatrics.

B.S., George Washington University, 1950; M.S., 1953; Ph.D., 1955.

JAMES A. LYON, JR., Instructor in Pediatrics.

A.A., Princeton University, 1944; M.D., Long Island College of Medicine, 1947.

G. BOWERS MANSDORFER, Associate in Pediatrics.

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MARY E. MATTHEWS, Assistant in Pediatrics.

B.S., North Carolina State College, 1936; M.S., University of North Carolina, 1945; M.D., 1949.

ELEANOR L. McKNIGHT, Assistant in Pediatrics.

B.S., Madison College, 1937; M.S., Simmons College, 1947.

- ISRAEL P. MERANSKI, Instructor in Pediatrics.  
B.S., Trinity College, 1925; M.D., University of Maryland, 1929.
- WILLIAM A. NIERMANN, Assistant in Pediatrics.  
M.D., Medical College of Virginia, 1948.
- WILLIAM S. PARKER, Assistant in Pediatrics.  
B.S., University of Chattanooga, 1947; M.D., University of Tennessee, 1951.
- LEONARD SCHERLIS, Instructor in Pediatrics.  
A.B., Johns Hopkins University, 1942; M.D., 1945.
- SIDNEY SCHERLIS, Associate in Pediatrics.  
B.A., University of Pennsylvania, 1934; M.D., University of Maryland, 1938.
- WILLIAM M. SEABOLD, Assistant Professor of Pediatrics.  
B.S., University of Maryland, 1928; M.D., 1931.
- HENRY MURRAY SEIDEL, Instructor in Pediatrics.  
A.B., Johns Hopkins University, 1943; M.D., 1946.
- FRED B. SMITH, Associate Professor of Pediatrics.  
M.D., University of Maryland, 1920.
- MELCHIJAH SPRAGINS, Associate in Pediatrics.  
A.B., Johns Hopkins University, 1941; M.D., 1944.
- ALVIN A. STAMBLER, Assistant in Pediatrics.  
B.S., M.D., University of Maryland, 1952.
- ARNOLD TRAMER, Instructor in Pediatrics.  
B.S., University of Maryland, 1936; M.D., 1949.
- ARNOLD VANCE, Assistant in Pediatrics.  
B.S., University of Maryland, 1950; M.D., 1953.
- WILLIAM EARL WEEKS, Assistant in Pediatrics.  
B.S., Wake Forest College, 1937; M.D., University of Maryland, 1940.
- GIBSON JACKSON WELLS, Assistant Professor of Pediatrics.  
B.S., Johns Hopkins University, 1932; M.D., University of Maryland, 1936.
- J. CARLTON WICH, Assistant in Pediatrics.  
B.S., University of Maryland, 1938; M.D., 1943.

## DEPARTMENT OF PHARMACOLOGY

- JOHN CHRISTIAN KRANTZ, JR., Professor of Pharmacology and Head of the Department.  
B.S., University of Maryland, 1923; M.S., 1924; Ph.D., 1928.
- FREDERICK KELLER BELL, Assistant in Pharmacology.  
A.B., Johns Hopkins University, 1916; Ph.D., 1920.
- RAYMOND MERRITT BURGISON, Associate Professor of Pharmacology.  
B.S., Loyola College of Baltimore, 1945; M.S., University of Maryland, 1948; Ph.D., 1950.
- STEPHEN KROP, Lecturer in Pharmacology.  
B.S., Georgetown University, 1938; M.S., 1940; Ph.D., Cornell University, 1942.

**RUTH MUSSER**, Instructor in Pharmacology.

B.A., Goucher College, 1917; M.S., University of Maryland 1931.

**EDWARD BYRD TRUITT, JR.**, Associate Professor of Pharmacology.

B.S., Medical College of Virginia, 1943; Ph.D., University of Maryland, 1950.

**JOSEPH McCURLEY WHITE, III**, Lecturer in Pharmacology.

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## DEPARTMENT OF PHYSIOLOGY

**WILLIAM RUTHRAUFF AMBERSON**, Professor of Physiology and Head of the Department.

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**JEANNE ANN BARRY**, Junior Instructor in Physiology.

B.A., Cornell University, 1951.

**FREDERICK PALMER FERGUSON**, Professor of Physiology.

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**SAMUEL LOUIS FOX**, Assistant Professor of Physiology.

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**ARMAND JOEL GOLD**, Assistant Professor of Physiological Research.

A.B., Western Maryland College, 1949; M.S., University of Maryland, 1951; Ph.D., 1955.

**SYLVIA HIMMELFARB**, Instructor in Physiology.

A.B., Goucher College, 1938.

**DIETRICH CONRAD SMITH**, Professor of Physiology; Associate Dean.

B.A., University of Minnesota, 1923; M.A., 1924; Ph.D., Harvard University, 1928.

**JOHN IRVING WHITE**, Assistant Professor of Physiology.

B.A., University of Illinois, 1939; Ph.D., Rutgers University, 1950.

**JAMES HENRY WILLS**, Lecturer in Physiology.

B.S., Virginia Polytechnic Institute, 1934; M.S., Medical College of Virginia, 1936; Ph.D., University of Rochester, 1941.

## DEPARTMENT OF PREVENTIVE MEDICINE AND REHABILITATION

**MAURICE C. PINCOFFS**, Professor of Preventive Medicine and Rehabilitation and Head of the Department.

B.S., University of Chicago, 1910; M.D., Johns Hopkins University, 1912.

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**ALEXANDER S. DOWLING**, Associate Professor of Preventive Medicine.

A.B., DePauw University, 1925; M.D., Harvard University, 1930.

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MARGARET R. HAWKINS, Assistant in Preventive Medicine.

R.N., Johns Hopkins University, 1946; B.S., Johns Hopkins University, 1952.

FLORENCE I. MAHONEY, Associate Professor of Physical Medicine.

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SAMUEL M. REICHEL, Assistant Professor of Physical Medicine and Rehabilitation.

A.B., Johns Hopkins University, 1932; M.D., University of Maryland 1936.

AUBREY D. RICHARDSON, Instructor in Preventive Medicine.

B.S., University of North Carolina, 1944; M.D., University of Maryland, 1951.

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B.S., Yale University, 1944; M.D., University of Kansas, 1948.

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A.B., Harvard University, 1939; M.A., Columbia University, 1940; Sc.D., Johns Hopkins University, 1953.

WILLIAM H. F. WARTHEN, Associate Professor of Hygiene and Public Health.

A.B., Johns Hopkins University, 1919; M.D., 1922; M.P.H., 1940.

HUNTINGTON WILLIAMS, Professor of Hygiene and Public Health.

A.B., Harvard College, 1915; M.D., Johns Hopkins University 1919; Dr.P.H., 1921.

## DEPARTMENT OF PSYCHIATRY

JACOB E. FINESINGER, Professor of Psychiatry and Head of the Department.

A.B., Johns Hopkins University, 1923; M.A., 1925; M.D., 1929.

A. RUSSELL ANDERSON, Associate Clinical Professor of Psychiatry.

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TANASH H. ATOYNATAN, Instructor in Psychiatry.

P.G.N., University of Istanbul, 1938; M.D., Istanbul School of Medicine, 1944.

CHARLES BAGLEY, III, Associate in Psychiatry.

B.S., Loyola College of Baltimore, 1944; M.D., University of Maryland, 1950.

RAYMOND I. BAND, Assistant Professor of Psychiatry.

A.B., George Washington University, 1945; M.D., 1948.

KLAUS W. BERBLINGER, Associate Professor of Psychiatry.

M.D., University of Munich, 1934; M.D., University of Bern, 1936.

JOSEPH S. BIERMAN, Instructor in Psychiatry.

B.A., Washington University, 1945; M.D., 1950.

EUGENE B. BRODY, Professor of Psychiatry.

A.B., M.A., University of Missouri, 1941; M.D., Harvard University, 1944.

ENOCH CALLAWAY, III, Assistant Professor of Psychiatry.

A.B., Columbia University, 1944; M.D., 1947.

IRVIN H. COHEN, Instructor in Psychiatry.

A.B. Johns Hopkins University, 1944; M.D., University of Maryland, 1947.

J. G. N. CUSHING, Assistant Professor of Psychiatry.

B.S., Villanova College, 1931; M.D., Jefferson Medical College, 1935.

RICHARD H. DOSS, Instructor in Psychiatry.

M.D., Johns Hopkins University, 1948.

RALPH L. DUNLAP, Instructor in Medical Psychology.

A.B., Antioch College, 1949; M. A., Ohio State University, 1951; Ph.D., 1953.

WALTER S. EASTERLING, Associate in Psychiatry.

B.S., University of Arkansas, 1946; M.D., 1947.

WILLIAM H. EDWARDS, Instructor in Psychiatry.

A.B., Johns Hopkins University, 1940; M.D., University of Maryland, 1951.

WILLIAM W. ELGIN, Assistant Professor of Psychiatry.

B.A., Washington and Lee University, 1925; M.D., Johns Hopkins University, 1929.

AUGUSTO J. ESQUIBEL, Assistant in Psychiatry.

M.D., University of Sao Paulo, 1950.

LEROY W. FARINHOLT, JR., Professor of Law in Psychiatry.

A.B., Johns Hopkins University, 1934; LL.B., University of Maryland, 1940; LL.M., Harvard Law School, 1947.

WILLIAM N. FITZPATRICK, Associate in Psychiatry.

B.S., Mercer University, 1941; M.D., Emory University, 1944.

KURT GLASER, Instructor in Psychiatry.

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BERNARD S. GORDON, Associate in Psychiatry.

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GERTRUDE GROSS, Assistant in Psychiatry.

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CAROLA B. GUTTMACHER, Assistant in Psychiatry.

M.D., University of Buenos Aires, 1944.

MANFRED S. GUTTMACHER, Associate Clinical Professor of Psychiatry.

A.B., Johns Hopkins University, 1919; M.D., 1923.

WILLIAM M. HARRIS, Associate in Psychiatry.

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JEROME HARTZ, Associate Professor of Psychiatry.

B.A., Yale University, 1933; M.D., Johns Hopkins University, 1937.

ALEJANDRO E. HERNANDEZ, Assistant in Psychiatry.

B.Sc. & A., Institute de Segunda, Havana, Cuba, 1938; M.D., University of Havana, 1946.

IRENE L. HITCHMAN, Associate in Psychiatry.

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ANTHONY HORDERN, Assistant in Psychiatry.

B.B.Ch.B., Edinburgh University, 1947; D.P.M., University of London, 1952.

SARAH V. HUFFER, Associate in Psychiatry.

B.S., University of Maryland, 1940; M.D., 1950.

MARVIN JAFFE, Assistant Professor of Psychiatry.

B.A., Ohio State University, 1942; M.D., 1945.

ARTHUR R. JENSEN, Assistant in Medical Psychology.

B.A., University of California, 1945; M.A., San Diego State College, 1952; Ph.D., Columbia University, 1955.

DENNIS T. JONES, Instructor in Psychiatry.

B.S., Wake Forest College, 1950; M.D., Bowman-Gray School of Medicine, 1953.

STANLEY JOSEPH, Assistant in Medical Psychology.

A.B., Syracuse University, 1951.

MARTA KORWIN, Instructor in Psychiatric Social Work.

B.S.W., University of Toronto, 1953; M.S.W., University of Pennsylvania, 1956.

LESTER M. LIBO, Assistant Professor of Medical Psychology.

A.M., Stanford University, 1948; Ph.D., 1951.

EPHRAIM T. LISANSKY, Assistant Professor of Psychiatry.

A.B., Johns Hopkins University, 1933; M.D., University of Maryland, 1937.

GEORGE H. LONGLEY, Instructor in Psychiatry.

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WILLIAM W. MAGRUDER, Associate in Psychiatry.

B.S., Mississippi State College, 1942; M.D., Duke University, 1944.

MARION MATHEWS, Instructor in Psychiatry.

B.A., Agnes Scott College, 1934; M.S., Emory University, 1935; M.D., University of Georgia, 1940.

LEOPOLD MAY, Instructor in Psychiatry.

B.Ch.E., City College of New York, 1944; M.S., Polytechnic Institute of Brooklyn, 1948; Ph.D., 1951.

FRANCIS McLAUGHLIN, Instructor in Psychiatry.

M.D., University of Maryland, 1939.

HARRY M. MURDOCK, Assistant Professor of Psychiatry.

B.S., University of Nebraska, 1925; M.D., 1927.

ROMAN E. NAGORKA, Assistant in Occupational Therapy in Psychiatry.

B.S., Columbia University, 1953; O.T., Richmond Professional Institute of the College of William and Mary.

SAMUEL NOVEY, Instructor in Psychiatry.

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FREDERICK E. PHILLIPS, Instructor in Psychiatry.

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BENJAMIN POPE, Assistant Professor of Medical Psychology.

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**BRUNO RADAUSKAS**, Assistant in Psychiatry.

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**JULIAN W. REED**, Instructor in Psychiatry.

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**JOHN R. REID**, Professor of Philosophy in Psychiatry.

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**JOAN H. REMY**, Assistant in Medical Psychology.

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**NATHAN SCHNAPER**, Associate in Psychiatry.

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**PEARL H. SCHOLZ**, Assistant in Psychiatry.

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**KATHRYN L. SCHULTZ**, Assistant Professor of Psychiatry.

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**ROBERT E. TRATTNER**, Instructor in Psychiatry.

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**PHILIP VAIL**, Assistant in Medical Psychology.

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**CHARLES S. WARD**, Instructor in Psychiatry.

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**ROGER S. WATERMAN**, Instructor in Psychiatry.

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**OTTO A. WILL, JR.**, Associate Clinical Professor of Psychiatry.

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**IMOGENE YOUNG**, Associate Professor of Psychiatric Social Work.

B.A., Sophie Newcomb College, 1933; M.S.W., Tulane University, 1935.

## DEPARTMENT OF RADIOLOGY

**JOHN MURRAY DENNIS**, Professor of Radiology and Head of the Department.

B.S., University of Maryland, 1943; M.D., 1945.

FERNANDO GERMANO BLOEDORN, Associate Professor of Radiology and Head, Division of Radiotherapy.

M.D., University del Litoral, Rosario, Argentina, 1936.

ROBERT PAGE BOUDREAU, Assistant Professor of Radiology.

B.A., Princeton University, 1943; M.D., Syracuse University, 1946.

EDWARD RUNKEL DANA, Assistant Professor of Radiology.

B.A., Wesleyan University, 1941; M.D., Johns Hopkins University, 1944.

CHARLES N. DAVIDSON, Professor of Clinical Radiology.

M.D., University of Virginia, 1938.

JOHN DECARLO, JR., Assistant Professor of Radiology.

A.B., Temple University, 1940; M.D., Jefferson Medical College, 1944.

NATHAN BERNARD HYMAN, Instructor in Radiology.

M.D., University of Maryland, 1946.

JAMES A. LYON, JR., Associate in Radiology.

A.A., Princeton University, 1944; M.D., Long Island College of Medicine, 1947.

ALBERT B. SHACKMAN, Instructor in Radiology.

B.S., University of Michigan, 1945; M.D., 1948.

HENRY HOLLINGSWORTH STARTZMAN, Associate in Radiology.

M.D., University of Maryland, 1950.

HERBERT LEONARD WARRES, Instructor in Radiology.

B.S., New York University, 1932; M.D., University of Maryland, 1938.

## DEPARTMENT OF SURGERY

ROBERT WILLIAM BUXTON, Professor of Surgery and Head of the Department.

A.B., Kansas University, 1931; M.D., 1936; M.S., University of Michigan, 1943.

ROBERT CALVIN ABRAMS, Instructor in Orthopedic Surgery.

A.B., Johns Hopkins University, 1935; M.D., 1939.

THURSTON R. ADAMS, Assistant Professor of Surgery.

M.D., University of Maryland, 1934.

BRUCE W. ARMSTRONG, Assistant Professor of Surgery.

B.A., Montana State University, 1941; M.D., Washington University, 1944.

JAMES GIVENS ARNOLD, JR., Professor of Neurological Surgery and Head, Division of Neurological Surgery.

B.A., University of North Carolina, 1925; M.D., Johns Hopkins University, 1929.

ROBERT Z. BERRY, Associate in Otolaryngology.

B.A., University of West Virginia, 1941; M.D., University of Maryland, 1943.

HAROLD PAUL BIEHL, Assistant in Surgery.

A.B., Western Maryland College, 1936; M.D., University of Maryland, 1940.

CYRUS L. BLANCHARD, Professor of Otolaryngology and Head, Division of Otolaryngology.

B.A., Clark University, 1943; M.D., George Washington University, 1946.

- HENRY FRANCIS BONGARDT, Assistant Professor of Surgery.  
B.S., Creighton University, 1919; M.D., 1919.
- HARRY CLAY BOWIE, Assistant Professor of Surgery.  
B.S., University of Maryland, 1933; M.D., 1936.
- SIMON H. BRAGER, Assistant Professor of Surgery.  
M.D., University of Maryland, 1928.
- HENRY ALISON BRIELE, Associate in Postgraduate Surgery.  
Ph.G., University of Maryland, 1931; M.D., 1939.
- ANTHONY VINCENT BUCHNESS, Assistant in Surgery.  
B.A., Loyola College, 1916; M.D., University of Maryland, 1922.
- HAROLD HUBERT BURNS, Associate in Surgery.  
B.S., University of Pittsburgh, 1938; M.D., University of Maryland, 1936.
- JOHN W. CHAMBERS, Instructor in Surgery.  
A.B., Johns Hopkins University, 1939; M.D., 1943.
- RICHARD G. COBLENTZ, Clinical Professor of Neurological Surgery.  
A.B., Johns Hopkins University, 1914; M. D., 1918.
- WILFORD ANDERSON HALL COUNCILL, JR., Assistant in Urology.  
B.S., Davidson College, 1942; M.D., University of Virginia, 1947.
- E. EUGENE COVINGTON, Associate in Oncology.  
M.D., University of Maryland, 1927.
- R. ADAMS COWLEY, Assistant Professor of Thoracic Surgery; Director of the Cardio-Pulmonary Physiology Laboratory and Assistant Director of Experimental Surgery.  
M.D., University of Maryland, 1944.
- ROBERT M. N. CROSBY, Associate in Neurological Surgery.  
M.D., University of Maryland, 1943.
- RICHARD J. CROSS, Associate in Otolaryngology.  
B.S., Mt. St. Mary's College, 1943; M.D., University of Maryland, 1946.
- RAYMOND M. CUNNINGHAM, Instructor in Surgery.  
B.A., Loyola College, 1935; M.D., University of Maryland, 1939.
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- WILLIAM CHARLES DUNNIGAN, Assistant in Surgery.  
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- FRANK PHILIP DWYER, JR., Assistant in Otolaryngology.  
M.D., University of Maryland, 1948.
- CHARLES REID EDWARDS, Professor of Surgery.  
M.D., University of Maryland, 1913.
- MONTE EDWARDS, Clinical Professor of Surgery.  
M.R.C.S. (England), L.R.C.P. (London), St. Thomas's Hospital Medical School, 1917.

WILLIAM C. ESMOND, Instructor in Surgery.

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## HISTORY OF THE SCHOOL OF MEDICINE

The present School of Medicine, with the title University of Maryland School of Medicine and College of Physicians and Surgeons, is the result of a consolidation and merger of the University of Maryland School of Medicine with the Baltimore Medical College (1913) and the College of Physicians and Surgeons of Baltimore (1915).

Through the merger with the Baltimore Medical College, an institution of thirty-two years' growth, the facilities of the School of Medicine were enlarged in faculty, equipment and hospital connection.

The College of Physicians and Surgeons was incorporated in 1872, and established on Hanover Street in a building afterward known as the *Maternité*, the first obstetrical hospital in Maryland. In 1878 union was effected with the Washington University School of Medicine, in existence since 1827, and the college was removed to Calvert and Saratoga Streets. Through the consolidation with the College of Physicians and Surgeons, medical control of the teaching beds in the Mercy Hospital was obtained.

The School of Medicine of the University of Maryland is one of the oldest foundations for medical education in America, ranking fifth in point of age among the medical colleges of the United States. It was organized in 1807 and chartered in 1808 under the name of the College of Medicine of Maryland, and its first class was graduated in 1810. In 1812 the College was empowered by the Legislature to annex three other colleges or faculties: Divinity, Law, and Arts and Sciences; and the four colleges thus united were "constituted an University by the name and under the title of the University of Maryland."

The original building of the Medical School at the N. E. corner of Lombard and Greene Streets was erected in 1812. It is the oldest structure in this country from which the degree of doctor of medicine has been granted annually since its erection. In this building were founded one of the first medical libraries and one of the first medical school libraries in the United States.

At this Medical School dissection was made a compulsory part of the curriculum, and independent chairs for the teaching of gynecology and pediatrics (1867), and of ophthalmology and otology (1873), were installed for the first time in America.

This School of Medicine was one of the first to provide for adequate clinical instruction by the erection of its own hospital in 1823. In this hospital intramural residency for senior students was established for the first time.

The School of Medicine has been co-educational since 1918.

## BUILDINGS AND FACILITIES

The original medical building at the N. E. corner of Lombard and Greene Streets houses the offices of the Dean, Associate Deans, the Committee on Admissions, and Postgraduate Committee and two lecture halls.

The Administration Building, to the east of the original building, contains the Baltimore offices of the Registrar and two lecture halls.

The laboratory building at 31 South Greene Street is occupied by the departments of Pathology, Microbiology and Biochemistry.

The Frank C. Bressler Research Laboratory provides the departments of Anatomy, Pharmacology, Physiology and Clinical Pathology with facilities for teaching and research. It also houses the research laboratories of the clinical departments, animal quarters, a laboratory for teaching Operative Surgery, a lecture hall and the Bressler Memorial Room.

This building was erected in 1939-1940 at 29 South Greene Street opposite the University Hospital. It was built with funds left to the School of Medicine by the late Frank C. Bressler, an alumnus, supplemented by a grant from the Federal government. The structure, in the shape of an I, extends east from Greene Street, just north of the original building.

### MEDICAL LIBRARY

The Medical Library of the University of Maryland, founded in 1813 by the purchase of the collection of Dr. John Crawford, now numbers about 40,000 volumes and several thousand pamphlets. Over six hundred of the leading medical journals, both foreign and domestic, are received regularly. The library, formerly housed in Davidge Hall, is now in temporary quarters at 6 South Greene Street for the interval while a new medical sciences library building is being constructed at the corner of Lombard and Greene Streets. Although much of the less used material is, of necessity, in storage, library services will be adequately maintained under the interim arrangement.

The library of the Medical and Chirurgical Faculty of Maryland and the Welch Medical Library are open to students of the medical school without charge. Other libraries of Baltimore are the Peabody Library and the Enoch Pratt Free Library.

### OUT PATIENT DEPARTMENT

The Out Patient Department is located on the S. W. corner of Lombard and Greene Streets. The building was originally the University Hospital. It has been remodeled to provide space and facilities for more than thirty clinics, the departments of X-ray, a Pharmacy, Laboratory and other ancillary services. Admission policies are predicated upon the teaching requirements of the School of Medicine and the ward services of the University Hospital.

A close liaison is maintained with the City Health Department through the joint efforts of the University Hospital and the City Department of Health in maintaining the Well Baby Clinic, the Western Health District and the Medical Care Clinic, which are housed in the Out Patient Department building.

The Department of Art and the Department of Dental Anatomy also have quarters in the Out Patient Department building.

## UNIVERSITY HOSPITAL

The University Hospital, a Department of the University of Maryland, is the oldest institution for the care of the sick in the State of Maryland. It was opened in September 1823 under the name of the Baltimore Infirmary and at that time consisted of only four wards, one of which was reserved for patients with diseases of the eye.

In 1933-1934 the New University Hospital Building was erected. It has a capacity of 435 beds and 65 bassinets. In 1952-1953 an ultra-modern Psychiatric Institute Building was erected and a junctional wing was added to the general hospital. The new additions increased the hospital bed capacity to 659 beds and 70 bassinets devoted to general medicine, surgery, obstetrics, pediatrics, psychiatry and the various medical and surgical specialties. Three hundred and forty-two are for ward patients.

The new hospital buildings are situated at the southwest corner of Redwood and Greene Streets opposite the medical school buildings. The students, therefore, are in close proximity to the clinical facilities of the University Hospital. The hospital as planned, makes a particularly attractive teaching unit and is a very valuable addition to the clinical teaching facilities of the medical school.

Most of the Ancillary Services are located on the second floor of the Hospital. The north wing is occupied by the department of roentgenology. The east wing houses clinical pathology and special laboratories for clinical microscopy, biochemistry, bacteriology, and hematology. The south wing provides space for electrocardiographic and basal metabolism departments. The west wing contains the departments of rhinolaryngology and bronchoscopy, industrial surgery, and male and female cystoscopy.

The Emergency Service of the hospital receives and treats a large number of emergency cases because of its proximity to the largest manufacturing and shipping districts of the city. During the past fiscal year a total of 37,240 patients were treated in the Emergency Room.

The Out Patient Department of the University Hospital is a well organized teaching area. 128,268 visits to the various clinics of the Out Patient Department were made during the last fiscal year.

## THE PSYCHIATRIC INSTITUTE

The Psychiatric Institute of the University was opened for the care of patients in 1953. It is a six-story building connected directly with the University Hospital, of which it is an integral part. It houses the Department of Psychiatry of the Medical School. The upper floors of the building are reserved for the treatment and care of 100 in-patients. The out-patient unit, which includes the child guidance clinic and adult psychiatric clinics, occupies the three lower floors. Clinical and research laboratories are located in the first and second floors of the connecting wing. There is a lecture hall and a large study library on the first floor.



Each of the upper floors is arranged into two wards with dining rooms next to a central kitchen for each ward. A nurses' station is in the center of each floor allowing ready visibility and access to the rooms along the corridors. The third and fourth floors are used for disturbed patients.

Facilities are available to treat patients in every phase of psychiatric illness and rehabilitation. Rooms are available for the care of patients in the acutely disturbed phase of their illness. There are small units for various types of physical treatments and for hydrotherapy situated on and adjacent to the disturbed wards.

Recreational facilities are available for adults and children in a large auditorium and gymnasium on the seventh floor which lead to an enclosed roof. A large playground is available to in-patients and out-patients alike.

The lower three floors of the building are used for the child guidance clinic and for out-patients. There are 63 offices available to physicians, nurses, psychologists and social workers; also available are five large waiting rooms and three conference rooms. Eleven offices are adjacent to the wards and fourteen offices can be used for both in-patients and clinic patients. Sixteen offices have microphone outlets so physicians can make recordings for study. A library of recordings is near the main library where students can listen to recorded interviews.

Space is provided for clinical and research laboratories. EEG connections are available to several laboratories. Three clinical laboratories, a psychological laboratory and a neuro-physiological laboratory are in the connecting wing between the psychiatric unit and the general hospital. These are available for purposes of diagnosis, treatment and research.

### MERCY HOSPITAL

Mercy Hospital traces its history back to the foundation of the Washington School of Medicine in 1824. In 1872 some of the members of this institution founded a new school, which was the beginning of the College of Physicians and Surgeons of Baltimore.

Washington School of Medicine opened a dispensary and a small hospital at the corner of Saratoga and Calvert Streets and named it the Baltimore City Hospital. This building served both as a hospital and a medical school. In 1874 the Sisters of Mercy, upon the invitation of Washington School of Medicine, assumed responsibility for the Nursing Services of the hospital. In 1876, Washington University merged with the College of Physicians and Surgeons.

In 1888 the Sisters of Mercy with the assistance of the Faculty of the College of Physicians and Surgeons laid the cornerstone of the present hospital. Since then the growing demands for more space have compelled the erection of addition after addition until now it accommodates 356 patients.

In 1909 the name of the Baltimore City Hospital was changed to Mercy Hospital.

The clinical material in the free wards is under the exclusive control of the University of Maryland School of Medicine and College of Physicians and Surgeons. One hundred ninety-three beds are allotted for teaching purposes.

During the year ending December 31, 1956, there were 11,531 general admissions, 29,358 dispensary visits, 2,700 obstetrical deliveries, and 17,771 emergency visits in the Accident Department.

Mercy Hospital founded its School of Medical Technology in 1928. It was officially approved in 1933 making it the first approved School of Medical Technology in the city. It is also approved by the Council of Medical Education and Hospitals of the American Society of Clinical Pathologists.

The clinical facilities of the School of Medicine have been largely increased by the liberal decision of the Department of Public Welfare to allow the use of the wards of these hospitals for medical education. The autopsy material also is available for student instruction.

Members of the junior class make daily visits to these hospitals for clinical instruction in medicine, surgery, and the specialties.

The Baltimore City Hospitals consist of the following separate divisions:

The General Hospital, 420 beds, 80 bassinets.

The Hospital for Chronic Cases, 500 beds.

The Hospital for Tuberculosis, 440 beds.

Infirmery (Home for Aged) 425 beds.

Out Patient Department.

#### THE JAMES LAWRENCE KERNAN HOSPITAL AND INDUSTRIAL SCHOOL OF MARYLAND FOR CRIPPLED CHILDREN

This institution is situated on an estate of 75 acres at Dickeyville. The site is within the northwestern city limits and of easy access to the city proper.

The location is ideal for the treatment of children, in that it affords all the advantages of sunshine and country air.

A hospital unit, complete in every respect, offers all modern facilities for the care of any orthopaedic condition in children.

The hospital is equipped with 80 beds—endowed, and city and state supported.

The orthopaedic dispensary at the University Hospital is maintained in closest affiliation and cares for the cases discharged from the Kernan Hospital. The physical therapy department is very well equipped with modern apparatus and trained personnel. Occupational therapy has been fully established and developed under trained technicians.

## THE BALTIMORE EYE, EAR, AND THROAT HOSPITAL

This institution was first organized and operated in 1882 as an outgrowth of the Baltimore Eye and Ear Dispensary, which closed on June 14, 1882. The name then given to the new hospital was The Baltimore Eye and Ear Charity Hospital. It was located at the address now known as 625 W. Franklin St. The out-patient department was opened on September 18, 1882 and the hospital proper on November 1 of the same year. In 1898 a new building afforded 24 free beds and 8 private rooms; by 1907 the beds numbered 47; at present there are 60 beds, 29 of which are free. In 1922 the present hospital building at 1214 Eutaw Place was secured and in 1926 the dispensary was opened. In 1928 a clinical laboratory was installed. During 1956 the out-patient visits numbered 22,250.

Through the kindness of the Hospital Board and Staff, our junior students have access to the dispensary which they visit in small groups for instruction in ophthalmology.

# REQUIREMENTS FOR ADMISSION

## METHOD OF MAKING APPLICATION FOR ADMISSION

Applications must be filed between July 1 and January 15 for the subsequent September class. Request for application forms should be sent to the Committee on Admissions, School of Medicine, 522 W. Lombard Street, Baltimore 1, Maryland.

## APPLICATION FOR ADMISSION TO ADVANCED STANDING

Students who have attended approved medical schools are eligible to file applications for admission to the second and third year classes only. These applicants must be prepared to meet the current first-year entrance requirements in addition to presenting acceptable medical school credentials, and a medical school record based on courses which are equivalent to similar courses in this school.

Application to advanced standing is made in accordance with the instructions accompanying the application form.

Persons who already hold the degree of Doctor of Medicine will not be admitted to the Medical School as a candidate for that degree from this university.

No applicants from foreign medical schools will be considered for advanced standing.

## MINIMUM REQUIREMENTS FOR ADMISSION

1. A minimum of 90 semester hours (three academic years) of acceptable college credit, exclusive of physical education and military science, earned in colleges of Arts and Sciences, whose names occur on the current list of "approved Colleges of Arts and Sciences" as compiled by the Council on Medical Education and Hospitals of the American Medical Association. Applicants who will have earned a bachelor's degree in arts and sciences before registration for medical school from an approved college or university will be given preference over applicants who have not completed the requirements for the bachelor's degree. Only those courses will be acceptable which are approved by the university or college attended, as well as the University of Maryland, for credit towards an A.B. or B.S. degree.
2. In addition the following courses and credits in required basic subjects must be completed before registering for medical school.

	Semester Hours		Quarter Hours	
General biology or zoology .....	*(6)	8	*(9)	12
Inorganic chemistry .....	*(6)	8	*(9)	12
Organic chemistry .....		6		9
Quantitative or Physical chemistry .....		3		5
General Physics .....	*(6)	8	*(9)	12
English .....		12		9
Foreign language .....		6		9

\*Consideration will be given applicants from the New England area where 6 semester hours, or 9 quarter hours, is the standard credit for a science course.



3. Medical College Admission Tests must be taken not later than October of the year prior to entrance.

### ELECTIVE COURSES

Careful attention should be given to the selection of elective courses particularly in the natural sciences. Except under unusual circumstances the student should plan a four year curriculum with a suitable Arts and Science major, leading to a bachelor's degree. A major in an area other than science is quite acceptable although it is not intended to divert students from a science major if this is their field of choice. The student taking science courses beyond the minimal requirements is encouraged to take such subjects as Embryology, Psychology, Anthropology or Physical Chemistry. Courses duplicating medical school work such as Histology, Neurology, Biochemistry, Mammalian Physiology, Human Anatomy, Bacteriology are not recommended unless they are required in the student's major sequence. Having credit in such courses will not excuse students from taking them in Medical School. In the non-science area, courses in English, Philosophy, Sociology, Economics, History, Government and Politics are recommended.

### BASIS OF SELECTION

Academic achievement, medical aptitude test scores, recommendations from college instructors or premedical committee and personal interview are all carefully considered in evaluating an applicant. A student may be denied admission because of unsatisfactory reports in any one of these areas. Academic achievement alone does not automatically insure acceptance as the Committee is equally concerned with personality, aptitude, character, integrity, motivation and assessment of the individual as a potential physician. Letters of recommendation are requested from at least two science instructors and one non-science instructor. Candidates will be expected to complete all required basic premedical subjects before July 1 of the year they are planning to enter.

Preference will be given to Maryland residents but well qualified applicants from other areas in the United States or Canada will be considered. Applicants from foreign schools must complete at least two years of premedical work in an approved college or university in the United States or Canada.

### DEFINITION OF RESIDENCE AND NON-RESIDENCE

Students who are minors are considered to be resident students if at the time of their registration their parents have been domiciled in this State for at least one year.

The status of the residence of a student is determined at the time of his first registration in the University, and may not thereafter be changed by him unless, in the case of a minor, his parents move to and become legal residents of the State by maintaining such residence for at least one full year. However, the right of the minor student to change from a non-resident to resident status must be established by him prior to the registration period for any semester.



Adult students are considered to be resident if at the time of their registration they have been domiciled in this State for at least one year provided such residence has not been acquired while attending any school or college in Maryland or elsewhere.

The word domicile as used in this regulation shall mean the permanent place of abode. For the purpose of this rule only one domicile may be maintained.

### STATE MEDICAL STUDENT QUALIFYING CERTIFICATES

Candidates for admission who live in or expect to practice medicine in Pennsylvania, New Jersey or New York, should apply to their respective state boards of education for medical student qualifying certificates (Pennsylvania and New Jersey) or approval of applications for medical student qualifying certificates (New York).

Those students who are accepted must file satisfactory State certificates in the office of the Committee on Admissions, School of Medicine, before registration. No exceptions will be made to this requirement.

#### *Addresses of the State Certifying Offices*

Director of Credentials Section, Pennsylvania Department of Public Instruction, Harrisburg, Pa.

Chief of the Bureau of Credentials, New Jersey Department of Public Instruction, Trenton, N. J.

Supervisor of Qualifying Certificates, The State Education Department, Examinations and Inspections Division, Albany, N. Y.

### CURRENT FEES

Application fee.....	\$ 7.50
Matriculation fee (paid once).....	10.00
Tuition fee (each year)—Residents of Maryland.....	650.00
Tuition fee (each year)—Non-Residents.....	800.00
Laboratory fee (each year).....	25.00
Student health service fee (each year).....	30.00
Student activities and service fee (each year).....	20.00
*Lodging and meals fee—Baltimore City Hospitals (Senior Class) .....	14.00
National Board Examination fee (Senior Class).....	10.00
Graduation fee.....	15.00
Re-examination fee (each subject).....	5.00
Late registration fee.....	5.00
†Special fee .....	30.00

\*Senior students will be billed for this fee, covering lodging and meals for a two-week period while on obstetrical service at Baltimore City Hospitals. This fee must be paid by all senior students.

†“The Special Fee is payable by all full-time students enrolled in the Professional Schools on the Baltimore campus. Proceeds from the Special Fee will be used to finance the equipment needed for the Baltimore Union Building.”

## RULES FOR PAYMENT OF FEES

Make all checks or money orders payable to the "University of Maryland."

When offering checks or money orders in payment of tuition and other fees, students are requested to have them drawn in the exact amount of such fees. Personal checks whose face value is in excess of the fees due will be accepted for collection only.

**Acceptance.**—Payment of the matriculation fee of \$10.00 and of a deposit on tuition of \$50.00 is required of accepted applicants before the expiration date specified in the offer of acceptance. This remittance will be credited upon registration to the first semester charges. In the event of withdrawal before registration the \$10.00 matriculation fee will be retained by the School of Medicine and the \$50.00 advance deposit will be returned on request.

**Registration.**—For the Fall semester, all students, after proper certification, are required to complete a set of registration cards to be found in the Student Lounge of the Gray Laboratory before taking them to the Registrar's Office. All students are expected to complete their registration, including the payment of bills on the registration days. Those who do not complete their registration on the prescribed days will be charged a fee of \$5.00.

One-half of the tuition fee and all of the following—the laboratory fee, the student health fee, the maintenance and service fee, the National Board Examination fee, the special fee, and the student activities fee are payable on the date specified for registration for the first semester.

The remainder of the tuition fee shall be paid on the date designated for the payment of fees for the second semester. Fourth year students shall pay the graduation fee, in addition, at this time.

## PENALTY FOR NON-PAYMENT OF FEES

If semester fees are not paid in full on the specified registration dates, a penalty of \$5.00 will be added.

If a satisfactory settlement, or an agreement for settlement, is not made with the business office within ten days after a payment is due, the student automatically is debarred from attendance at classes and will forfeit the other privileges of the School of Medicine.

## REEXAMINATION FEE

A student who is eligible for reexaminations must secure a bill in the amount of \$5.00 from the Registrar's Office and make payment to the Cashier for each subject in which he is to be examined, and he must present the receipt to the faculty member giving the examination before he will be permitted to take the examination.

## STUDENT ACTIVITIES FUND

This fund supports all student activities and is budgeted by the Student Council in accordance with its own by-laws. All expenditures from this fund must be approved by the Student Council. The fund supports the student recreational program, the students lounge and cafeteria, representation of national conventions for certain student organization, the cost of membership in the National Internship Association, as well as other activities. A portion of the fund is allocated to the yearbook and provides each medical student with a copy of this publication.

## STUDENT HEALTH SERVICE

JAMES R. KARNS, M.D. .... Director, Student Health Service

The Medical School has made provision for the systematic care of undergraduate medical students according to the following plan:

1. *Preliminary Examination*—All new students will be examined during the first week of the semester. Notice of the date, time, and place of the examination will be announced to the classes and on the bulletin board. The passing of this physical examination is necessary before final acceptance of any student.

2. *Medical Attention*—Students in need of medical attention will be seen by the director, Dr. James R. Karns, in his office on the 8th floor University Hospital at 12 m. daily, except Saturday and Sunday. In case of necessity, students will be seen at their homes.

3. *Hospitalization*—If it becomes necessary for any student to enter the hospital during the school year, the school has arranged for the payment of part or all of his hospital expenses, depending on the length of his stay and special expenses incurred. This applies only to students admitted through the school physician's office.

4. *Physical Defects*—Prospective students are advised to have any known physical defects corrected before entering school in order to prevent loss of time which later correction might incur.

5. *Eye Examination*—Each new matriculant is required to undergo an eye examination at the hands of an oculist (Doctor of Medicine) within the three months immediately preceding his entrance to the School of Medicine.

6. *Limitations*—It is not the function of this service to treat chronic conditions contracted by students before admission, nor to extend treatment to acute conditions arising in the period between academic years, unless the school physician recommends this service.

## GENERAL RULES

The right is reserved to make changes in the curriculum, the requirements for graduation, the fees and in any of the regulations whenever the university authorities deem it expedient. The School of Medicine will not be responsible for the students' personal property.

## GRADING SYSTEM

Official grades are designated by these symbols:

*Symbol*

3	Upper third of class
2	Middle third of class
1	Lower third of class
P	Satisfactory completion of course
F	Failure
I	Incomplete
C	Condition

The class standing of all students will be released at the end of each academic session.

## ADVANCEMENT AND GRADUATION

1. No medical student will be permitted to begin work for credit in any semester of any year who reports for classes later than one week after classes begin, except by permission of the Dean.

2. Students will receive a grade for the various disciplines in the manner outlined below.

Anatomy	}	3, 2, 1 F, I, C
Biochemistry		
Physiology		
Microbiology		
Pharmacology		
Pathology		
Psychiatry		
Surgery		
Medicine		
Pediatrics		
Obstetrics-Gynecology		
Radiology	}	P, F, I, C
Ophthalmology		
Anesthesiology		
Preventive Medicine		

3. No student will be permitted to advance or to graduate with unabsolved failures, conditions or incompletes.

4. Students are required to attend all scheduled classes.

5. A student who has failures in two completed major subjects will be dropped from the rolls.

6. Should a student be required to repeat any year in any course, he must pay regular fees.

7. A student failing his final examinations for graduation at the end of the fourth year will be required to repeat the entire course of the fourth year and to take examinations in such other branches as may be required, provided he is permitted to enter the school as a candidate for graduation.

8. Department Heads may employ any grading system within their respective departments in order to arrive at the student's class standing and, therefore, his final grade.

9. The general fitness of a candidate for advancement and for graduation as well as the results of his examinations will be taken into consideration by the faculty.

10. Students must satisfactorily complete Part II of the National Board Examinations prior to their graduation.

### EQUIPMENT

11. At the beginning of the first year, all freshmen must possess a complete set of dissecting instruments. In addition, they must provide themselves with microscopes equipped with a mechanical stage and a substage lamp. Microscopes must meet the standards described below:

A standard microscope made by Bausch & Lomb, Leitz, Zeiss or Spencer fitted with the following attachments, meets the requirements.

16 mm., 10x, 0.25 N.A.—4.9 mm. working distance.

4 mm., 43x, 0.65 N.A.—0.6 mm. working distance.

1.8 mm., 97x, oil immersion, 1.25 N.A.—0.13 mm. working distance.

Oculars: 10x and 5x. Huygenian eyepieces.

Triple nose pieces with 16 mm., 4 mm., and 1.9 mm. 125 N.A. oil immersion lens.

Wide aperture stage with quick screw condenser and built on, but detachable, ungraduated mechanical stage. Substage condenser, variable focusing type 1.25 N.A. with iris diaphragm. A rack and pinion focusing device is preferred. Mirror-plane on one side, concave on the other. A carrying case is recommended.

Students are cautioned with respect to the purchase of used or odd-lot microscopes since some older instruments were equipped with a 4 mm. (high dry) objective whose N.A. is marked as 0.85 N.A. This objective has such a short working distance (0.3 mm.) that it is difficult or impossible to focus through thick cover glasses or the standard hemocytometer cover glass without breakage. All used microscopes are subject to inspection and approval by Dr. Frank H. J. Figge, and Dr. Andrew G. Smith, Room 209, Bressler Building, 29 S. Greene Street. Such approval must be obtained before September 5. This inspection is usually not made during August.

12. Prior to beginning the second semester of the Freshman year, each student must provide himself with a stethoscope, sphygmomanometer and ophthalmoscope-otoscope. The Department of Physiology and the Division of Physical Diagnosis offer the following recommendations:



<i>Instrument</i>	<i>Recommended Type</i>	<i>Comment</i>
Stethoscope	Rieger-Bowles or	Purchase thick-walled rubber tubing. The wall thickness and internal diameter should be $\frac{1}{8}$ inch each.
	Sprague-Bowles	
Sphygmomanometer	Tycos aneroid	Other types are also satisfactory, but this has proved itself for all around reliability and durability.
Ophthalmoscope-Otoscope	Welch-Allyn	With closed (diagnostic) otoscope head and No. 106 May ophthalmoscope head (not deluxe).
	or National	With closed (diagnostic) otoscope head and May ophthalmoscope head.

The following equipment, which is frequently sold in a packaged kit with the above instruments will be needed for second year work in physical diagnosis:

Tuning fork	256 cycles per second	The large aluminum alloy type is preferred to the small stainless steel variety.
Reflex hammer	any simple type	Avoid specialized instruments with built in pins, brushes, etc.

13. Students in the second year class are also expected to provide themselves with a hemocytometer (Spencer Bright-Line). Third and fourth year students are required to provide themselves with short white lapel coats. Three button, 8 ounce sanforized duck coats are satisfactory.

### STATE QUALIFYING CERTIFICATES

14. Candidates for admission who live in or expect to practice medicine in Pennsylvania or New Jersey should apply to their respective State Boards of Education for Medical Student Qualifying Certificates.

### AWARDING OF COMBINED DEGREES

15. Students entering the School of Medicine on a three-year requirement basis from colleges which usually grant a degree on the successful completion of the first year of medicine, are restricted by the following regulations:

- a—The candidate must present a certificate from his college or university that he has absolved the quantitative and qualitative premedical requirements for this degree.

- b—The candidate must acquire an average of C or better without failures for the work of his first year in the School of Medicine.
- c—The Dean of the School of Medicine reserves the right to withhold his recommendation that a bachelor's degree be conferred at a commencement which occurs before the official release of first-year medical grades.

### TRANSCRIPTS

16. Students will be provided the first transcript of record without charge. After the first copy has been issued single copies will cost one dollar. When two or more copies are requested at the same time the first copy will cost one dollar, additional copies fifty cents each. Requests for transcripts must be filed with the Registrar's Office, University of Maryland, 522 West Lombard Street, Baltimore 1, Maryland.

### CHANGES OF ADDRESS

17. Students are required to give the Dean's Office and the Registrar's Office prompt notice of change in address.

### PARKING

18. Students are not permitted to use the university parking lots.

### HOUSING

There are no housing or living accommodations on the campus of the medical school.

### LIBRARY REGULATIONS

#### *Loan Regulations*

Loan periods have been worked out according to demand for and protection of different types of material.

*Two-Week Loans:* All books except those on reserve.

*One-Week Loans:* All journals except the latest number (which does not circulate), and those on reserve.

*Overnight Loans:* Books and journals on reserve.  
(3:50 p.m.-2 p.m.)

#### *Special Rules for Books on Reserve:*

Students whose names appear on the check-list for the Mercy Hospital section will be granted the necessary hours to return reserve books.

Overnight books may be reserved in advance only within the week in which they will be used. Books may be reserved on Friday or Saturday for the following Monday.

Overnight books may not be reserved two successive nights by the same person.

Advance reserves will be held until one hour before closing.

### *Fines*

Fines are imposed not to acquire money, but to assure every student equal access to books.

*Two-Week Loans:* 5c per day.

*One-Week Loans:* 5c per day.

*Overnight Loans:* 15c for first hour; 5c for each additional hour or fraction thereof.

*Lost Books:* List price of the book. (Lost books should be reported at once.)

All books must be returned, lost books replaced or paid for, and fines paid before a student can finish the year in good standing.

In fairness to all concerned, these rules must be enforced without exception.

## CERTIFICATION FOR STATE BOARD AND NATIONAL BOARD EXAMINATIONS

No student will be certified to State Board or National Board examiners who has unabsolved failures in subjects taken during the academic period covered by these examinations.

## WITHDRAWALS AND REFUNDS

### *Formal Withdrawal Procedures*

Students over 21 years of age desiring to leave the School of Medicine at any time during the academic year are required to file with the Dean a written application for withdrawal. In addition, the student must secure an "honorable dismissal release" form from the Dean's secretary, and return this to the Dean's office appropriately signed by representatives of the departments listed thereon, together with his "matriculation certificate."

If these procedures are not completed, the student will not be entitled to honorable dismissal nor to refund of fees.

Students under 21 years of age must supplement the procedures previously described with the written consent of their parents or guardians.

### *Academic Standing On Withdrawal*

Students who voluntarily withdraw during an academic semester will be given no credit.

Students are not permitted to resort to withdrawal in order to preclude

current or impending failures. Their standing on withdrawal will be recorded in the registrar's office.

Students who withdraw from the School of Medicine, must apply to the Committee on Admissions for readmission, unless other arrangements have been consummated with the Dean's written consent.

### *Refunds on Withdrawal*

Students who are eligible to honorable dismissal will receive a refund of current charges, after the matriculation fee has been deducted, according to the following schedule:

<i>Period elapsed after instruction begins</i>	<i>Percentage refundable</i>
Two weeks or less.....	80%
Between two and three weeks.....	60%
Between three and four weeks.....	40%
Between four and five weeks.....	20%
After five weeks.....	0

## PRIZES

### THE FACULTY PRIZE

The Faculty will award the Faculty Gold Medal and Certificate and five Certificates of Honor to six of the first ten highest ranking candidates for graduation who, during the four academic years, have exhibited outstanding qualifications for the practice of medicine.

### THE DR. A. BRADLEY GAITHER MEMORIAL PRIZE

A prize of \$25.00 is given each year by Mrs. A. Bradley Gaither as a memorial to the late Dr. A. Bradley Gaither, to the student in the senior class doing the best work in genito-urinary surgery.

### THE DR. LEONARD M. HUMMEL MEMORIAL AWARD

A gold medal and certificate of proficiency will be awarded annually, as a memorial to the late Dr. Leonard M. Hummel, to the graduate selected by the Executive Committee of the Faculty who has manifested outstanding qualifications in Internal Medicine.

## SCHOLARSHIPS

All scholarships are assigned for one academic year, unless specifically reawarded on consideration of an application.

Official application forms are obtainable at the Dean's office, where they must be filed not later than May 15th for the ensuing academic year.

## THE DR. SAMUEL LEON FRANK SCHOLARSHIP

(Value \$100.00)

This scholarship was established by Mrs. Bertha Rayner Frank as a memorial to the late Dr. Samuel Leon Frank, an alumnus of this university.

It is awarded by the Trustees of the Endowment Fund of the University each year upon nomination by the Executive Committee of the Faculty "to a medical student of the University of Maryland, who in the judgment of said Council, is of good character and in need of pecuniary assistance to continue his medical course."

This scholarship is awarded to a second, third or fourth year student who has successfully completed one year's work in this school. No student may hold this scholarship for more than two years.

## THE CHARLES M. HITCHCOCK SCHOLARSHIPS

(Value \$100.00 each)

Two scholarships were established from a bequest to the School of Medicine by the late Charles M. Hitchcock, M.D., an alumnus of the university.

These scholarships are awarded annually by the Trustees of the Endowment Fund of the University, upon nomination by the Executive Committee of the Faculty, to students who have meritoriously completed the work of at least the first year of the course in medicine, and who present to the Board satisfactory evidence of a good moral character and of inability to continue the course without pecuniary assistance.

## THE RANDOLPH WINSLOW SCHOLARSHIP

(Value \$100.00)

This scholarship was established by the late Randolph Winslow, M.D., LL.D.

It is awarded annually by the Trustees of the Endowment Fund of the University, upon nomination by the Executive Committee of the Faculty, to a "needy student of the Senior, Junior, or Sophomore Class of the Medical School."

"He must have maintained an average grade of 85% in all his work up to the time of awarding the scholarship."

"He must be a person of good character and must satisfy the Faculty Board that he is worthy of and in need of assistance."

## THE DR. LEO KARLINSKY MEMORIAL SCHOLARSHIP

(Value \$125.00)

This scholarship was established by Mrs. Ray Mintz Karlinsky as a memorial to her husband, the late Dr. Leo Karlinsky, an alumnus of the university.



It is awarded annually by the Trustees of the Endowment Fund of the University, upon the nomination of the Executive Committee of the Faculty, to 'a needy student of the Senior, Junior or Sophomore Class of the Medical School.'

He must have maintained in all his work up to the time of awarding the scholarship a satisfactory grade of scholarship.

He must be a person of good character and must satisfy the Executive Committee that he is worthy of and in need of assistance.

#### THE CLARENCE AND GENEVRA WARFIELD SCHOLARSHIPS (Value \$300.00 each)

There are five scholarships established by the regents from the income of the fund bequeathed by the will of Dr. Clarence Warfield.

Terms and Conditions: These scholarships are available to students of any of the classes of the course in medicine. Preference is given to students from the counties of the state of Maryland which the Executive Committee of the Faculty may from time to time determine to be most in need of medical practitioners.

Any student receiving one of these scholarships must agree, after graduation and a year's internship, to undertake the practice of medicine, for a term of two years, in the county to which the student is accredited, or in a county selected by the Committee. In the event the recipient is not able to comply with the condition requiring him to practice in the county to which he is accredited by the Committee, the money advanced by the regents shall be refunded by the student.

#### THE ISRAEL AND CECELIA E. COHEN SCHOLARSHIP (Value \$150.00)

This scholarship was established by the late Eleanor S. Cohen in memory of her parents, Israel and Cecelia E. Cohen. Terms and conditions: This scholarship will be available to students of any one of the classes of the course in medicine; preference is given to students of the counties in the state of Maryland which the Executive Committee of the Faculty may from time to time determine to be most in need of medical practitioners. Any student receiving one of these scholarships must, after graduation and a year's internship, agree to undertake the practice of medicine for a term of two years in the county to which the student is accredited, or in a county selected by the council. In the event that a student is not able to comply with the condition requiring him to practice in the county to which he is accredited by the Committee, the money advanced by the regents shall be refunded.

#### THE DR. HORACE BRUCE HETRICK SCHOLARSHIP (Value \$250.00)

This scholarship was established by Dr. Horace Bruce Hetrick as a memorial to his sons, Bruce Hayward Hetrick and Augustus Christian Hetrick.

It is to be awarded by the Executive Committee of the Faculty to a student of the senior class.

### THE HENRY ROLANDO SCHOLARSHIP

(Value approximately \$250.00)

The Henry Rolando Scholarship was established by the Board of Regents of the University of Maryland from a bequest to the Board by the late Anne H. Rolando for the use of the Faculty of Medicine.

This scholarship will be awarded each academic year on the recommendation of the Executive Committee of the Faculty to a "poor and deserving student."

### THE READ SCHOLARSHIPS

The sum of \$500.00 is now available to cover two (2) scholarships in the amount of \$250.00 each for a given academic year. Beginning in 1945, these scholarships were made possible by a donation from the Read Drug and Chemical Company of Baltimore, Maryland. Two students are to be selected by the Dean of the School of Medicine in collaboration with the Scholarship and Loan Committees of the Medical School with the provision that the students selected shall be worthy, deserving students, residents of the State of Maryland.

### LOAN FUNDS

#### W. K. KELLOGG FUNDS

This loan fund was established in the academic year 1942 with money granted by the W. K. Kellogg Foundation. The interest paid on the loans, together with the principal of the fund as repaid, will be used to found a rotating loan fund. Loans will be made on the basis of need, character and scholastic attainment.

#### FACULTY OF MEDICINE LOAN FUND

A Faculty of Medicine Loan Fund was established with money derived from the bequest of Dr. William R. Sanderson, Class 1882, and the gift of Dr. Albert Stein, Class 1907 and a gift of Dr. Frank A. Merlino, Class 1928. Loans will be made on the basis of need, character, and scholastic ability.

#### THE EDWARD L. MEIERHOF LOAN AWARD

This bequest was established through a grant from Dr. Edward L. Meierhof, who was graduated from the Medical School in 1881. The principal of this fund will be used as a rotating loan fund from which loans will be made to regularly enrolled students of the School of Medicine on the basis of need, character and scholastic attainment.

#### THE JAY W. EATON LOAN FUND

This fund was established by the local chapter of the Nu Sigma Nu Fraternity in memory of Jay W. Eaton of the class of 1946.

Beginning in 1946 an interest-free loan of \$100.00 will be made to some worthy member of the senior class, on recommendation of the Scholarship Committee of the School of Medicine. This loan is to be credited to the tuition fee of the appointed student and is to be repaid by the student within four years following his graduation.

#### THE SENIOR CLASS LOAN FUND

The senior class of 1945 originated this fund which will accumulate by subscription from among members of each senior class.

The conditions of the agreement provide that the Dean of the School of Medicine award a loan of \$100.00 to a needy member of the senior class on the recommendation of a self-perpetuating committee of two members of the faculty.

Loans from this fund are to be credited to the tuition fee of the appointed student and are to be repaid within five years from the date of graduation.

#### THE WILLIAM AND SARAH KRAUT MEMORIAL STUDENT LOAN FUND

This loan fund was established in 1954 by a gift from Dr. Arthur M. Kraut as an expression of his appreciation for what the School of Medicine has meant to him and as a memorial to his parents.

The Scholarship and Loan Committee of the School of Medicine shall be the sole and final judge in matters of administration and operation of the fund.

Loans from the fund and the terms of repayment are unrestricted and are left to the discretion of the committee.

#### THE STUDENT AID FUND FOR SENIORS

This fund was originated by the class of 1950 and is sponsored by the senior class of each succeeding year. The purpose of the fund is to provide financial aid for any deserving member of the senior class. All members of the senior class are eligible to apply for a loan. Applications may be filed at the office of the Dean.

The conditions of the agreement provide that the Scholarship and Loan Committee award loans to members of the senior class on recommendation of a self-perpetuating committee of two members of the faculty who may call on the president of the senior class for assistance, if desired.

Loans from this fund are made on a non-interest bearing basis and are payable within five years. A signed note is required. No co-signers are necessary.

## HUGH R. SPENCER LOAN FUND

This fund was established in 1956 in honor of Dr. Hugh R. Spencer, professor of pathology, who retired from active duty during that year. Loans from this fund can be made to needy students on application and should be repaid in partial installments of 20% each, beginning two years after graduation. Interest on the loan together with the principal of the fund as repaid will be used as a rotating loan fund.

## ORGANIZATION OF THE CURRICULUM

The curriculum is organized under fifteen departments.

1. Anesthesiology.
2. Anatomy (including Histology, Embryology, and Neuro-anatomy).
3. Biological Chemistry.
4. Medicine (including Medical Specialties).
5. Microbiology.
6. Obstetrics and Gynecology.
7. Ophthalmology.
8. Pathology.
9. Pediatrics.
10. Pharmacology.
11. Physiology.
12. Preventive Medicine and Rehabilitation.
13. Psychiatry.
14. Radiology.
15. Surgery (including Surgical Specialties).

The instruction is given in four academic years of graded work.

Several courses of study extend through two years or more, but in no case are the students of different years thrown together in the same course of teaching.

The first and second years are devoted largely to the study of the structures, functions and chemistry of the normal body. Laboratory work occupies most of the student's time during these two years.

Some introductory instruction in medicine and surgery is given in the second year. The third and fourth years are almost entirely clinical.

A special feature of instruction in the school is the attempt to bring together teacher and student in close personal relationship. In many courses of instruction the classes are divided into small groups and a large number of instructors insures attention to the requirements of each student.

In most courses the final examination as the sole test of proficiency has disappeared and the student's final grade is determined largely by partial examinations, recitations and assigned work carried on throughout the course.



## INTERDEPARTMENTAL COURSES

### ID. 1. Man and His Environment. First year. 64 hours.

Distinguished leaders in American medicine participate in the presentation of these weekly sessions. The course is broad in scope, stressing the cultural aspects of anthropology with emphasis directed toward the sociological, psychological, physiological, and geneological relationships of man and his surroundings. All departments of the School of Medicine participate.

### ID. 2. Introduction to Clinical Medicine. Second year. 64 hours.

The techniques of obtaining medical histories are taught by lectures, demonstrations, and small group exercises. A concentrated effort is made to emphasize and illustrate the pathologic-physiology accounting for the pertinent symptoms and signs searched for in every medical history and physical examination. The Departments of Medicine, Obstetrics and Gynecology, Pediatrics, Preventive Medicine and Rehabilitation, Psychiatry, Radiology, and Surgery participate in the instruction.

### ID. 3. Physical Diagnosis. Second year. Second semester. 32 hours.

This course implements ID. 2 and provides the student with bedside instruction in physical diagnosis. Small tutorial groups are formed each under the direction of an instructor. In the first five weeks, experience in physical examination of normal individuals is given one afternoon weekly. During the subsequent 12 weeks, students become acquainted with abnormal signs through examination of hospitalized patients. For the first five of these 12 weeks, the Cardiology Division gives instruction in the physical examination of the heart. Thereafter, sections are assigned in rotation to the Division of Neurology and the Department of Pediatrics for instruction in these specialties.

### ID. 4. Interdepartmental Seminars. Third and Fourth years. 64 hours.

These seminars are designed to present, during the course of two academic years, a correlated consideration of the major disease processes encountered in the practice of medicine. All departments cooperate to provide an intensive presentation designed to elucidate the clinical and basic science aspects of the diseases under discussion.

## ANATOMY

Professors Figge (Head of Department), Brantigan, Nauta, Uhlenhuth;  
Associate Professors Krahl, Mack, Walker; Assistant Professors  
Kuypers, Leveque, Mech, Settle; and Staff.

### Anat. 101. Gross Anatomy. First year. First semester. 278 hours.

This course gives the student an opportunity to develop a basic concept of the morphology of the human body. It is closely interwoven with the study of neuroanatomy, histology, and embryology, and some time is devoted to roentgen anatomy. The entire human body is dissected.

### Microanat. 101. Microanatomy. First year. First semester. 144 hours.

This course presents an integrated study of the histology and embryology of the human body. An attempt is made to correlate this with gross anatomy as well as other subjects in the medical curriculum. Special emphasis is placed on the dynamic and functional aspects of the subject.

### Neuroanat. 101. Neuroanatomy. First year. First semester. 96 hours.

The study of the detailed anatomy of the central nervous system is coordinated with structure and function of the entire nervous system. The dissection of the human brain and the examination of stained microscopic sections of various levels of the brain stem are required.

**Anat. 103. Clinical Anatomy.** Second year. Second semester. 96 hours.

The course is designed to bridge the gap between basic anatomy and clinical or applied anatomy. The study of surface anatomy is correlated with physical diagnosis. Students have an opportunity to perform a detailed anatomical dissection with emphasis upon clinical application. Laboratory fee, non-medical students, \$20.00.

**For Graduates**

The graduate degrees offered by the Department of Anatomy are the Master of Science and the Doctor of Philosophy.

**Anat. 201. General Anatomy of the Human Body (8).** Same course as 101, but on a more advanced level. It can be taken by graduate as well as postgraduate students. Laboratory fee, \$25.00.

**Anat. 202. The Anatomy of the Human Pelvis (2).** Fifteen periods of four hours each during the first semester, mornings by arrangement. This course is open to graduate students, medical students, and postgraduate students.

**Anat. 203. Practical Anatomy (4).** Same course as Anat. 103 but on a more advanced level. Laboratory fee, \$20.00.

**Anat. 204. Fetal and Infant Anatomy (2).** Fifteen periods of three hours each, every Thursday from 2:00 to 5:00 p.m. during the first semester. This course is open to graduate students and postgraduates interested in Pediatrics.

**Anat. 205. Research in Anatomy.** Maximum credits, 12 per semester. Research work may be taken in any one of the branches of Anatomy.

**Neuroanat. 201. Human Neuroanatomy (4).** Same course as Neuroanat. 101, but with additional work of a more advanced nature. Laboratory fee, \$10.00.

**Neuroanat. 202. Research in Neuroanatomy.** Maximum credits, 12. Research work involving the central or peripheral nervous system.

**Microanat. 201. Mammalian Histology (6).** Same course as Microanat. 101, but with additional work of a more advanced nature. Laboratory fee, \$10.00.

**Microanat. 202. Normal and Typical Growth.** Lectures in Problems of Growth (2). Two hours per week, time to be arranged. Sixteen weeks, second semester.

**Microanat. 203. Research.** Maximum credits, 12. Research work may be taken in any one of the branches which form the subject of Microanatomy (including cancer research).

## ANESTHESIOLOGY

Professor Helrich (Head of Department); Clinical Professor Nelson;  
Associate Professor Hackett; Clinical Associate  
Professors Phillips, Safar; and Staff.

During the first two years, the Department of Anesthesiology presents several lectures in the courses taught by the various pre-clinical departments. These lectures are intended to illustrate the application of the basic sciences to the clinical practice of anesthesiology. Emphasis is placed upon the physiologic and pharmacologic aspects of preanesthetic medication, choice of anesthesia and management of patients during surgery.

### **Anes. 101. Introduction to Anesthesiology. Fourth year.**

Each senior student spends a week, or its time equivalent, in the operating rooms of University Hospital administering anesthesia and observing. Informal group meetings are held to emphasize factors affecting the anesthetic management of patients observed and to discuss the more common anesthetic problems.

## BIOLOGICAL CHEMISTRY

Professor Schmidt (Head of Department); Associate Professors Herbst,  
Vanderlinde; Assistant Professor Vasington; and Staff.

### **Biochem. 101. Principles of Biochemistry. First year. Second semester. 208 hours.**

This course is designed to present the principles of biological chemistry and to indicate their applications to the clinical aspects of medicine. The phenomena of living matter and its chief ingredients, secretions and excretions are discussed in lectures and conferences and examined experimentally. Training is given in biochemical methods of investigation.

### **For Graduates**

Graduate degrees offered by the Department of Biological Chemistry are the Master of Science and Doctor of Philosophy.

### **Biochem. 201. Principles of Biochemistry (8). Same course as Biochem. 101, but on a more advanced level for graduate students. Laboratory fee, \$20.00.**

### **Biochem. 202. Special Topics in Biochemistry (1, 1). Prerequisite, Biochem. 101 or 201.**

### **Biochem. 203. Research. Maximum credits, 12. Credit proportioned to extent and quality of work accomplished.**

### **Biochem. 204, 205. Seminar (1, 1). First and second semesters.**

### **Biochem. 206. Enzymes and Metabolism (2-3). First semester.**

### **Biochem. 207. Biochemical Preparation (1-4). Credit according to work done.**

### **Biochem. 208. Chemistry and Metabolism of the Steroid Hormones (2-3).**

### **Biochem. 209. Enzymes and Metabolism Laboratory (1-2). First semester.**

## MEDICINE

Professors Woodward (Head of Department), Carey, Fisher, Krause, Love, Peters, Robinson, Jr., Sacks, Van Buskirk; Associate Professors Andersch, Bubert, Cotter, Eastland, Ellis, Gundry, Lisansky, Marriott, S. Morrison, Mirick, Revell; Assistant Professors Bauer, Beacham, Bereston, Carrol, Chinard, Connor, Ebeling, Entwisle, Fort, Jacobson, Karns, Leach, Legge, Legum, Lerner, Levy, Merrill, McCrumb, Muller, Parker, Reiter, R. C. V. Robinson, L. Scherlis, S. Scherlis, Serra, S. Smith, Snyder, Spurling, Storey, Teitelbaum, Wisseman, Wiswell, Workman, Zeligman; and Staff.

### Med. 102. Clinical Clerkship in Medicine. Third year.

This course consists of a clinical clerkship on the medical wards of the University Hospital for a period of 9 weeks. Students are responsible, under supervision, for the history, physical examination, laboratory examinations and progress notes of assigned cases. They also attend ward rounds and conferences in general medicine with the Resident Staff, Attending Physicians and Chief of Service. For an additional 3 weeks, students are assigned to the Baltimore City Hospitals for work in the General Medical Outpatient Department. They also serve as clinical clerks on the Chronic Disease Wards and attend ward rounds and teaching conferences in General Medicine, Tuberculosis, Neurology and Radiology. During this quarter, certain students are assigned to the Loch Raven Veterans Administration Hospital as clinical clerks for special instruction in diseases of the chest.

### Med. 103. The Principles of Medicine. Third year. 47 hours.

A series of lectures in General Medicine, Neurology, Clinical Medicine and Medical Jurisprudence are given to the entire Junior class.

### Med. 104. Advanced Clinical Clerkship in Medicine. Fourth year.

Clinical clerkship on the medical wards of University Hospital, Mercy Hospital, and the Fort Howard and Loch Raven Veterans Administration Hospitals for 4 weeks. An additional 4 week period is spent in the Medical Outpatient Department where instruction is given in General Medicine and the medical specialties. During this tour the senior student makes home visits on selected patients, participates in the workup of chronically ill patients at the Montebello Chronic Disease Hospital and attends consultative rounds in cardiology, infectious diseases, gastroenterology, radioisotopes, neurology, hematology, endocrinology and pulmonary diseases on the wards of the University Hospital.

## Summer Fellowships.

Students who have completed their Junior year are encouraged to seek additional training during the summer months preceding their Senior studies. This training may be obtained in one of several ways. A limited number of students are appointed to Clinical Clerkships on the Medical Wards of the University Hospital. In these positions, they are responsible, under supervision, for the history, physical examination, laboratory studies and progress notes of assigned cases.

In addition, certain of the medical subspecialty divisions provide specialized training for students as Summer Fellows during the summer months. The applicant is encouraged to apply directly to the Division Head. These fellowships enable the student to become acquainted with the various specialized diagnostic and research techniques, the clinical problems and therapeutic regimens peculiar to each of the medical subspecialties. Summer Fellowships are available in the following Divisions: Cardiology, Clinical Pathology (2 appointments), Dermatology (2 appointments), Endocrinology, Gastroenterology, Hypertension, Infectious Diseases (2 appointments), Legal Medicine, Neurology and Radioisotopes (1 appointment). Interested applicants should contact the respective Division Head prior to January 1 of the year in which the fellowship is desired. In many instances a fellowship award is made providing remuneration for two or three of the summer months.

## Postgraduate Fellowships.

These are available in the various specialties of Medicine. For details see specific division.



The Department of Medicine, for administrative purposes, is divided into eleven Divisions. Each of these Divisions participates in the major courses taught by the Department. In addition, a number of specialized courses and postgraduate fellowships are offered by the Divisions.

### DIVISION OF ARTHRITIS

Drs. Marriott (Head of Division), Furnari, Kochman, and Staff.

**Med. 105. Division Rounds.** Third year. Elective.

**Med. 105a. Outpatient Clinic.** Fourth year. Elective.

Weekly arthritis outpatient clinics and attendance at weekly arthritis rounds.

### DIVISION OF CARDIOLOGY

Drs. L. Scherlis (Head of Division), Love, Jr., Leach, S. Scherlis, Swisher, Townshend, Van Lill, III, and Staff.

**Physiol. 101. Principles of Physiology.** First year.

Lectures and demonstrations in the Electrical Activity of the Heart in collaboration with the Department of Physiology.

**ID. 3. Physical Diagnosis.** Second year. Second semester.

The Division of Cardiology participates in presenting this course.

**Med. 106. Electrocardiology.** Third and Fourth years. 16 hours Elective.

This is an introductory course consisting of illustrated group lectures and exercises.

#### Fellowships.

These are available to selected postgraduate applicants. The Fellow participates in the activities of the Division and receives a financial stipend. The fellowship begins July 1st of each year. Application is made through the Head of the Division and must be completed by October of the preceding year.

### DIVISION OF CLINICAL PATHOLOGY

Drs. Sacks (Head of Division), Andersch, Spurling, DeHoff, S. Miller, Funk, Rothfield, and Staff.

**Med. 101. Clinical Pathology.** Second year. 128 hours.

The course is designed to train the student in the performance and interpretation of the fundamental laboratory procedures used in clinical diagnosis. During the first semester the basic techniques of hematology as well as clinical aspects of blood diseases are taught. Blood group immunology in relation to transfusions is also covered. In the second semester the performance and interpretation of tests used in the diagnosis of renal, hepatic, gastric, pancreatic and metabolic diseases are considered. A review, with clinical applications, of acid-base balance and electrolyte disturbances is included. Methods of examination of cerebrospinal fluid, transudates and exudates are taught. Elements of clinical parasitology complete the work in this semester.

Each student provides his own microscope and blood counting equipment. A completely equipped locker is provided for each student.

**Med. 102a. Advanced Clinical Pathology.** Third year. 8 hours.

Seminar discussions of diagnostic laboratory procedures in selected diseases are given during the Medicine quarter. Each student is assigned a completely equipped locker adjacent to the wards for use during the clinical clerkships. Microscope and blood counting equipment must be provided by the student.



### Postgraduate Fellowships.

Two full-time clinical and research fellowships in hematology are available to applicants who have had a minimum of one year internship. A financial stipend is provided. Application should be made to the Head of the Division.

## DIVISION OF DERMATOLOGY

Drs. H. M. Robinson, Jr. (Head of Division), R. C. V. Robinson, Ellis, Bereston, Shapiro, Zeligman, Bundick, M. Cohen, Hollander, Bacharach, Strahan, Ludwig, and Staff.

### Med. 107. Introduction to Dermatology. Third year.

Students are given assigned reading on the more common skin eruptions. Six two hour clinical sessions are held for each quarter of the Junior class. Individual instruction is given by one of the senior staff members emphasizing the pertinent aspects of differential diagnosis.

### Med. 108. Practical Exercises in Dermatology. Fourth year.

Groups of twelve students spend twenty hours in the outpatient department where they are given individual instruction in the diagnosis and treatment of cutaneous lesions. Emphasis is laid on the relationship of various eruptions to systemic conditions. Instruction is given in mycologic technique. Six one hour lecture demonstrations are given to the entire Senior class, two of these are panel discussions with the senior members of the dermatology staff.

### Graduate Training.

The Division of Dermatology is approved by the American Board of Dermatology for a three year period of training which is required by the Board. This consists of instructions in the basic sciences (mycology, bacteriology, histopathology, chemistry and physiology), and instruction in clinical dermatology. Emphasis is placed on the relationship of cutaneous lesions to systemic diseases. Residents and Fellows spend a part of the training period at the Rosewood School for Retarded Children, the Baltimore City Hospitals and in the private offices of the members of the staff. Temporary membership in the clinical societies is provided under the sponsorship of the Division Head.

## DIVISION OF ENDOCRINOLOGY AND METABOLISM

Doctor Connor (Head of Division) and Staff.

### Med. 109. Endocrine Clinic. Fourth year. Elective.

The clinic is held once each week in the Outpatient Department.

### Traineeship.

Available to postgraduate applicants. The trainee participates in the clinical and laboratory investigative activities of the Division. A financial stipend is provided. Application should be made to the Head of the Division.

## DIVISION OF GASTROENTEROLOGY

Drs. Ebeling (Head of Division), Schochat and Staff.

### ID. 2. Introduction to Clinical Medicine. Second year.

The Division of Gastroenterology participates in the presentation of this course.

## DIVISION OF HYPERTENSION

Drs. Revell, Jr. (Head of Division), Borges, Cowley, Entwisle, and Staff.

**Med. 110. Conferences on Hypertension. Third year. Elective.**

Conferences on pathological-physiology of hypertension, sites of action of antihypertensive drugs, methods of screening patients with hypertension and choice of therapy in hypertensive patients.

**Med. 111. Outpatient Clinic and Division Rounds. Fourth year. Elective.**  
Weekly clinics and attendance at rounds.

**Postgraduate Fellowship.**

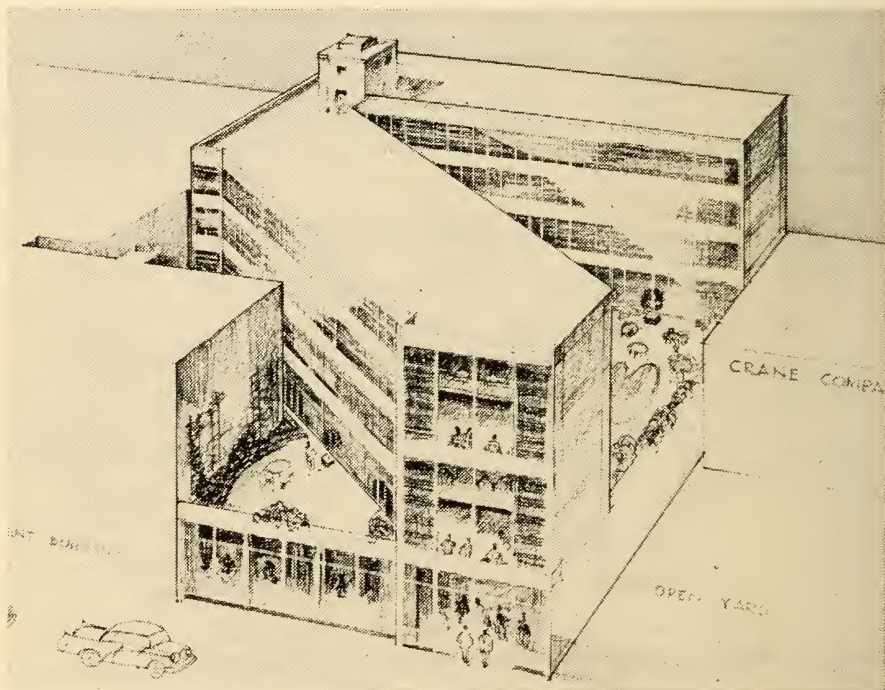
The Division sponsors a Fellow who receives training in pathological-physiology of hypertensive states, techniques of screening patients and management of hypertensive renal problems. In addition, he participates actively in investigative problems. A financial stipend is provided.

## DIVISION OF INFECTIOUS DISEASES

Drs. Parker (Head of Division), M. J. Snyder, McCrumb, Raffel and Staff.

**Postgraduate Fellowships.**

The Division sponsors a Fellow who receives instruction in laboratory techniques and clinical investigation. Fellows participate in all functions of the Division, including collaboration in investigative problems. A financial stipend is provided. Application is made through the Head of the Division.



Architect's drawing of proposed Student Union Building

## DIVISION OF NEUROLOGY

Drs. Van Buskirk (Head of Division), Lerner, Merrill, Teitelbaum, Cotter, and Staff.

**Med. 112. Introduction to Clinical Neurology.** Second year. 15 hours.  
Lectures in neurologic diagnosis are presented, stressing correlation of anatomy and physiology of the nervous system with clinical neurology.

**ID. 3. Physical Diagnosis.** Second year. Second semester.

The Division participates in presenting this course.

## DIVISION OF PHYSICAL DIAGNOSIS

Drs. Marriott (Head of Division), Richardson, and Staff.

**ID. 2. Introduction to Clinical Medicine.** Second year.

The Division participates in presenting this course.

**ID. 3. Physical Diagnosis.** Second year. Second semester. 32 hours.

This course implements ID. 2 and provides the student with bedside instruction in physical diagnosis. Small tutorial groups are formed each under the direction of an instructor. In the first five weeks, experience in physical examination of normal individuals is given one afternoon weekly. During the subsequent twelve weeks, students become acquainted with abnormal signs through examination of hospitalized patients. For the first five of these twelve weeks, the Division of Cardiology gives instruction in the physical examination of the heart. Thereafter, sections are assigned in rotation to the Division of Neurology and the Department of Pediatrics for instruction in these specialties.

## DIVISION OF RADIOACTIVE ISOTOPES

Drs. Bauer, Workman (Co-Directors of Division), Dennis, and Staff.

**Physiol. 101. Principles of Physiology.** First year.

In cooperation with the Department of Physiology, two orientation lectures and 8 laboratory sessions of 4 hours each are devoted to the discussion and demonstration of radioisotope techniques useful in medicine.

**Pharmacology 201.** Second year.

In cooperation with the Department of Pharmacology, a portion of one laboratory session is utilized to demonstrate the accuracy of a radioisotope method of estimating thyroid function.

**Med. 113. Thyroid Clinic.** Fourth year. Elective.

Combined Medical-Surgical Clinic designed for the study of all patients with thyroid disease seen in the Outpatient Department.

**Postgraduate Fellowships.**

One postgraduate fellowship is available. Applications are made to the Division Director.

## MICROBIOLOGY

Professor Wisseman (Head of Department); Associate Professor Smith;  
Assistant Professors Snyder, Sweet; and Staff.

**Microbiol. 101. Medical Microbiology and Immunology.** Second year.  
First semester. 180 hours.

This course is intended to supply the basic information on microbial agents and immunologic mechanisms necessary to understand infectious diseases, public health and diseases of

immunologic origin. Properties of microorganisms are considered in relation to pathogenesis of infections, mechanisms of tissue damage and host defense mechanisms. Bacterial, fungal, viral and rickettsial agents are studied in both lecture and laboratory.

### For Graduates

The Department of Microbiology offers the degree of Doctor of Philosophy. While the degree of Master of Science may be offered in special instances, priority for research facilities will be given aspirants to the Ph.D. degree. These courses are available only by prior arrangement with the Staff.

**Microbiol. 201. Medical Microbiology and Immunology (8).** This course is built upon Microbiol. 101 by the addition of advanced supplementary reading and laboratory exercises. Laboratory fee, \$10.00.

**Microbiol. 204. Research.** Maximum credits, 12 hours per semester.

**Microbiol. 206, 207. Seminar (1, 1).** One session per week, first and second semesters.

**Microbiol. 208. Medical Mycology (2).** One lecture and one laboratory per week, second semester. Laboratory fee \$10.00. Registration by consent of instructor.

## OBSTETRICS AND GYNECOLOGY

Professors Haskins (Head of Department), Kaltreider; Clinical Professors Reese, Siegel; Associate Clinical Professors Cornbrooks, McNally; Assistant Professor Molumphy; Assistant Clinical Professors Brady, Diehl, Diggs, Dixon, Davis, Morris, Morrison, Savage, Seegar, Smith; and Staff.

**Ob.-Gyn. 101. Clinical Clerkship in Obstetrics and Gynecology.** Third year.

Students are assigned to Obstetrics and Gynecology for a period of six weeks. As clinical clerks, they participate in the original diagnostic studies, delivery and pelvic surgical procedures of hospitalized patients. The students collaborate with the House Officers and private physicians in the postoperative and postpartum care of all patients.

Daily rounds and departmental conferences with House Officers and the Attending Staff aid the student in the interpretation and correlation of his observations and the various therapeutic regimens. There is specific instruction in pathology and the basic sciences as they are related to obstetrics and gynecology. Obstetrical manikin instruction is provided.

**Ob.-Gyn. 102. Advanced Clinical Clerkship in Obstetrics and Gynecology.** Fourth year.

Students are assigned to obstetrics and gynecology for a period of four weeks. Small groups of students attend Baltimore City Hospitals for two weeks in rotation. Participation in deliveries and prepartum and postpartum care are accomplished on a high level of individual student responsibility. Rounds and other organized instruction complete the obstetrical assignment of the student.

During the remaining two weeks, the student is assigned to the University Hospital Outpatient Department. Instruction is directed toward obstetric and gynecologic office procedures. As a clinical clerk, the student examines obstetric and gynecologic patients and follows them. He attends the several specialty clinics where instruction in endocrinology, female sterility and gynecologic cancer is given.



## OPHTHALMOLOGY

Assistant Professor Ozazewski (Acting Head of Department);  
Associate Kremen, and Instructor Wilson.

**Ophthal. 101. Introduction to Ophthalmology.** Third year. 20 hours.

The anatomy and physiology of the eye and various methods used in making ophthalmologic examinations are reviewed. Weekly section work, demonstrating the use of the ophthalmoscope, with the aid of kodachrome transparencies of the oculi, is carried on during the entire session at the Baltimore Eye, Ear and Throat Hospital.

**Ophthal. 102. Ophthalmology Clinic.** Fourth year.

Ward rounds, demonstrations, and clinics in diseases of the eye.

## PATHOLOGY

Professors Firminger (Head of Department), Fisher, Wagner; Associate Professors Freimuth, Frost, Lovitt, Warner, Weinberg, Wright; Assistant Professors Ellis, Goldstein, Guerin, Lindenberg; and Staff.

**Path. 101. General Pathology.** Second year. 390 hours.

This course includes the study of the basic principles of pathology with their application to the various organs and systems of the body. Laboratory instruction is based on the study of prepared slides (loan collection) and fresh and preserved gross material. Kodachrome slides are also utilized.

Small groups of students are required to attend autopsies conducted in the University Hospital. The student participates in discussions and prepares proper protocols.

**Path. 102. Correlative Pathology.** Third year.

The class is divided into groups and instruction is carried out in sectional laboratories where prepared specimens, complete cases including clinical histories, sections, and appropriate Kodachrome slides are available for study. The course is integrated so that while the student is assigned to one or another of the clinical divisions he studies corresponding diseases in the laboratory. Correlation is stressed.

**Path. 103. Clinical Pathologic Conferences.** Third and Fourth years.  
36 hours.

The exercises are held in collaboration with the various clinical departments. Histories are presented, differential diagnoses are discussed, and the clinical course is correlated with the autopsy findings.

## DIVISION OF FORENSIC PATHOLOGY

Drs. Fisher (Head of Division), Freimuth, Lovitt, Jr., Guerin, Lindenberg,  
and Staff.

### For Graduates

The Division of Forensic Pathology offers courses leading to the degrees of Master of Science and Doctor of Philosophy in Toxicology.

**Leg. Med. 201. Legal Medicine (1).** One hour of Lecture for twelve weeks, 4 hours assigned reading, first semester.

**Leg. Med. 202. Toxicology (10).** Two hours lecture, 8 laboratory hours per week for one year.



**Leg. Med. 203. Gross Pathologic Anatomy as Related to Toxicology (2).**  
Two hours per week for one year.

**Leg. Med. 204. Research in Toxicology Leading to Preparation of a Thesis for the M.S. (6).** Minimum credits, six.

**Leg. Med. 205. Research in Toxicology Leading to Preparation of a Thesis for the Ph.D. (30).**

#### **Postgraduate Fellowships.**

A limited number of physicians with a minimum of one year of training in pathologic anatomy are appointed as Research Fellows for training and research in medicolegal pathology. This training is approved by the American Board of Pathology towards the requirements for admission to the examinations in pathologic anatomy.

## **PEDIATRICS**

Professors Bradley (Head of Department), Joslin; Associate Professors Bessman, Finkelstein, F. B. Smith; Assistant Professors Baldwin, Besterbeurtje, Fineman, Glaser, Glick, Seabold, Wells; Associates Howell, Mansdorfer, S. Scherlis, Spragins; and Staff.

#### **Ped. 101. Inpatient Clerkship. Third year.**

Students are assigned as clinical clerks for a period of six weeks to the pediatric wards of the University and Mercy Hospitals. They are responsible for patient care and work with house staff and instructors in planning the workup and treatment of assigned patients. Ward rounds are attended three times weekly. The students are assigned tutors who meet with their students three times weekly.

Daily conferences are held covering x-ray diagnosis, cardiology, journal review, chart conferences, neo-natal mortality, case discussions and metabolic diseases. Discussions cover concepts of the premature and neonate, therapeutic management of pediatric patients, nutritional aspects and disturbances of the genitourinary tract.

#### **Ped. 102. Outpatient Department Clerkship. Fourth year.**

Students assigned to pediatrics as clinical clerks for a period of four weeks work in the Pediatric Outpatient Department of the University Hospital. All patients seen by the student are reviewed by an instructor of the pediatric staff. Daily conferences covering a wide range of pertinent pediatric topics are held from 9:30 to 10:30 a.m. Students are assigned to the Development, Seizure, Pediatric Hematology, Cardiology and Child Guidance Clinics. Senior students are responsible for physical examinations of all neonates. Field trips to various community agencies are offered to selected students. Ward rounds for senior students are held twice weekly in the University Hospital. Senior students attend the departmental noon conferences.

#### **Ped. 103. Laboratory Research Problems in Pediatrics. Second year. Elective (two students per year).**

Students will be required to set up simple laboratory procedures to be used by them in the study of a clinical problem. Problems will be selected of such limited scope that a fairly complete project can be done by two students cooperating in their elective time over a period of one year. Emphasis will be made on the accuracy and reliability of standard techniques, as applied to the detailed analysis of a clinical problem. Interested students should apply to Dr. Bessman.

## PHARMACOLOGY

Professor Krantz (Head of Department); Associate Professors Truitt and Burgison; and Staff.

**Pharmacol. 101. General Pharmacology.** Second year. 216 hours.

This course is designed to include those phases of pharmacology necessary for an intelligent use of drugs in the treatment of disease. The didactic instruction includes materia medica, pharmacy, prescription writing, toxicology, dosology, pharmacodynamics and experimental therapeutics. The laboratory exercises parallel the course of lectures.

In addition, optional conference periods and lectures are available for students desiring further instruction or advice.

### For Graduates

All students majoring in the Department of Pharmacology with a view to obtaining the degree of Master of Science or Doctor of Philosophy should secure special training in anatomy, mammalian physiology, organic chemistry and physical chemistry.

**Pharmacol. 201, f.s., General Pharmacology (8).** Same as 101, for students majoring in pharmacology. Additional instruction and collateral reading are required. Laboratory fee, \$20.00.

**Pharmacol. 205. Research.** Maximum credits, 12. Credit in accordance with the amount of work accomplished.

**Pharmacol. 206. Pharmacologic Methods.** Maximum credits, 4. Credit in accordance with the work accomplished.

**Pharmacol. 207, 208. Chemical Aspects of Pharmacodynamics (2-2).**

## PHYSIOLOGY

Professors Amberson (Head of Department), Ferguson, D. C. Smith;  
Assistant Professors Fox, Gold, J. I. White; and Staff.

**Physiol. 101. Principles of Physiology.** First year. Second semester. 225 hours.

The lectures cover the major fields of physiology, including the following areas: central and peripheral nervous systems, neuro-muscular apparatus, heart and circulation, respiration, kidney and body fluids, gastrointestinal tract, endocrines and reproduction. The laboratory includes experiments with frog and turtle heart and nerve-muscle preparations, mammalian operative work and observations on the human subject.

### For Graduates

The Department of Physiology prefers to accept students who have already had some graduate training elsewhere. Before admission to candidacy for the Doctor of Philosophy degree the Department gives a qualifying examination, both oral and written, which must be satisfactorily passed.

In the usual case a student majoring in Physiology will be expected to take Physiol. 101 before, or concurrently with, courses 201 to 206 below. Such a student will extend his major program by taking courses in other departments of this University, and by enrolling in the summer course in physiology at the Marine Biological Laboratory, Woods Hole, Massachusetts.

Physiol. 201. Experimental Mammalian Physiology. Time and credit by arrangement.

Physiol. 202. Blood and Tissue Proteins (2). Two lectures a week, for 15 weeks.

Physiol. 204. Physiological Techniques. Time and credit by arrangement.

Physiol. 205. Physiology of Kidney and Body Fluids (2). Two hours a week, lectures, seminars and conferences, for 15 weeks.

Physiol. 206. Seminar. Credit according to work done.

Physiol. 207. Research. By arrangement with the Head of the department.

## PREVENTIVE MEDICINE AND REHABILITATION

Professors Pincoffs (Head of Department) and H. Williams; Associate Professors Dowling, Mahoney and Warthen; Assistant Professors Farber, Reichel, Tayback; and Staff.

Prev. Med. 101. Biostatistics. First year. Second semester. 15 hours.

This series of lectures illustrates the basic methods of statistical analysis and demonstrates their use in several areas of clinical investigation.

Prev. Med. 102. Epidemiology. Second year. 18 hours.

The epidemiology and control of certain types of communicable disease are considered in a series of lectures.

Prev. Med. 103. Applied Preventive Medicine and Rehabilitation I. Third year. 38 hours.

This course consists of three parts. Major disease control programs, community medical resources and medical care programs are considered during eighteen hours of lectures. Students also participate in the work of the Medical Care Clinic for the population on public assistance and make home visits on selected patients. In addition, students also make field trips with Public Health Nurses and sanitary inspectors.

Prev. Med. 104. Applied Preventive Medicine and Rehabilitation II. Fourth year. 16 hours.

Conference on Home Survey Reports. Each student in his third year has been assigned a patient of the Medical Care Clinic whom he follows by visits to the home. He reports his observations at a small group conference organized jointly by the Department of Preventive Medicine and Psychiatry. Consideration is given to the family inter-relations, the economic situation, the dietary habits, the sanitation and the physical characteristics of the home as they influence the patient's illness.

Disposition Conference. Students present patients whose disabilities offer problems concerned with the provision of suitable care following discharge. An appraisal of the home and family has been made by a student visit prior to the conference. On the basis of the medical needs, the patient's ability to cooperate and the available home and community resources, a realistic recommendation for disposition is made to the Department concerned.

## PSYCHIATRY

Professors Finesinger (Head of Department), Brody, Farinholt, Reid; Associate Professors Berblinger, Grenell, M. Guttmacher, Hartz, Sutherland, Will, I. Young; Assistant Professors R. Band, Callaway, Cushing, Elgin, Jaffe, Libo, Lisansky, Murdock, Pope, Schultz; and Staff.

### **Psy. 101. Introduction to Psychiatry. First year. 80 hours.**

This course is devoted to a consideration of human relations as applied to the practice of medicine. The topics dealt with include personality development, reactions to stress, and situational and social factors in disease. The emphasis is upon observing, understanding, and evaluating the personal and social factors in the disease process, in treatment, and in prevention.

### **Psy. 102. Psychopathology. Second year. 48 hours.**

Emphasis is placed on methods of examining patients, and methods of developing and utilizing the doctor-patient relationship. The discussions center about psychopathology, as it operates in disease and in the treatment process.

### **Psy. 103. Psychiatric Clinical Clerkship. Third year. 80 hours.**

Students in groups of 6 are assigned for a three week period as clinical clerks at Spring Grove or Springfield State Hospitals. Students are assigned patients on the admission services of the hospitals and assume responsibility for the histories, the mental status, and other examinations. During the evenings he works on the wards learning methods of managing and treating disturbed patients.

### **Psy. 104. Advanced Psychiatric Clinical Clerkship. Fourth year. 110 hours.**

A clinical clerkship is offered in the wards of the University Hospital for one month. Emphasis is placed on diagnosis, methods of interviewing, methods of developing and managing a therapeutic doctor-patient relationship, and carrying out psychotherapy. Two afternoons each week are spent treating patients under supervision in the Comprehensive Clinic. Each student works two weeks on the in-patient halls from 6:00 p.m. to 10 p.m., observing and working with disturbed patients.

## RADIOLOGY

Professors Dennis (Head of Department), Davidson; Associate Professor Bloedorn; Assistant Professors Boudreau, Dana, DeCarlo; and Staff.

### **Rad. 101. Radiologic Anatomy. First year. First semester. 12 hours.**

A correlated course is given in conjunction with the Department of Anatomy. This course consists of nine lecture-demonstrations devoted to the skull, chest, gastrointestinal tract, genitourinary tract, the spine and joints. Not only is the normal anatomy shown, but the radiologic aspects of a few pathologic processes are also shown for emphasis and correlation.

### **Rad. 102. Radiologic Physiology. First year. Second semester. 3 hours.**

In conjunction with the Department of Physiology, students in groups of four, spend one afternoon in the Department of Radiology where they observe fluoroscopically respiratory and gastrointestinal physiology. An introduction is also given to the use of contrast material, as it is used in radiology, to demonstrate the function and structure of various portions of the human body.

### **Rad. 103. Pathologic Correlation. Second year. 4 hours.**

Lecture-demonstrations are given in conjunction with the Department of Pathology for correlation between gross pathology and the roentgenologic manifestations of various disease states, e.g. abnormal calcium metabolism, pulmonary diseases, bone tumors and tissue reaction to radiant energy.



**Rad. 104. Radiologic Orientation I. Third year. 28 hours.**

A series of lecture-demonstrations are given to small groups of students at the Baltimore City Hospital, Mercy Hospital and the University Hospital. An attempt is made to cover the roentgen studies of all systems of the body with demonstrations of the more common lesions encountered in each system. At Baltimore City Hospital, twelve lecture-demonstrations are given on the chest, the genitourinary tract and metabolic bone diseases, while at Mercy Hospital, three hours are devoted to the arthritides and bone tumors. At the University Hospital, additional lecture-demonstrations are devoted to the lungs, gastrointestinal tract, heart and skull.

**Rad. 105. Radiologic Orientation II. Fourth year. 30 hours.**

Students, in groups of three, are assigned part-time to the Department of Radiology for a period of one week. One morning is spent making rounds in the radiotherapy division. The other mornings are spent in the reading rooms with the staff radiologist and in the fluoroscopy rooms observing chest and gastrointestinal studies. In the afternoons, a group of teaching films, illustrating common congenital anomalies and pathologic lesions, are available for study.

Beside the organized lecture-demonstrations in radiology, Junior and Senior students attend the radiologic conferences held jointly with the Departments of Pediatrics and Surgery and the Neurosurgery and Urology Divisions.

**SURGERY**

Professors Buxton (Head of Department), Arnold, Blanchard, C. R. Edwards, Hull, Kitlowski, O'Rourke, Pessagno, Rogers, Voshell, Yeager and Young; Associate Professors Fox, Garlick, Kayser, Kyper, Rich, Ullrich and Walker; Assistant Professors T. R. Adams, Bongardt, Bowie, Brager, Cowley, Govatos, Haines, Isaacs, Mays, J. P. Miller, Scarborough, Schwartz, Siwinski, Thompson, Wilder and Staff.

**Surg. 101. Principles of Surgery. Third year. 48 hours.**

Three one hour periods are devoted each week to a discussion of fundamental surgical problems and a systematic description of general surgical disease. These discussions are designed as introductions to and preparation for detailed reading in standard textbooks, current periodicals and monographs in surgery.

**Surg. 101a. Surgical Specialty Lectures. Third year. 48 hours.**

This is a continuation of Surg. 101, wherein the surgical discussions center around the problems of Otorhinolaryngology, Thoracic Surgery, Neurosurgery, Orthopedic Surgery and Urologic Surgery.

**Surg. 103. Outpatient Clerkship in Surgery. Third year. 286 hours.**

One-fourth of the third year class is assigned to the Department of Surgery each quarter of the school year. Students are assigned to the Outpatient Department for the examination and supervised care of patients in the General Surgical, Orthopedic, Urologic, Neurosurgical, Thoracic Surgical and ENT Clinics. One-third of this quarter is spent at Mercy Hospital. Seminars are conducted in Surgical Pathology and upon the effects of Trauma. Students are assigned in rotation as clinical clerks at night in the Emergency Room.

**Summer Fellowships.**

Fellowships are available each summer for a period of ten weeks in the Surgical Research Laboratory. Both sophomore and junior students are eligible. Investigative problems related to these services will be undertaken under the guidance of members of the Surgical Staff.

**DIVISION OF GENERAL SURGERY**

Drs. Buxton, C. R. Edwards, Hull, Pessagno, Yeager, Adams, Bowie, Govatos, Siwinski, Bongardt, Brager and Staff.



**Surg. 103a.**

This is the student's introduction to an office-type surgical practice in that he undertakes the supervised care of patients in the Surgical Dispensary. General discussions related to problems presented by these patients are given by the Surgical Staff. The introduction to specific surgical technics in examination and treatment of patients is undertaken. This course is given at both University and Mercy Hospitals. Audio-visual instruction is given weekly. Students are assigned to the Emergency Room during this period.

**Surg. 104a.**

Senior students are assigned to patients on the surgical wards in the University Hospital. They are responsible for the physical examination, history and certain laboratory tests as required by the patient's disease.

**DIVISION OF NEUROSURGERY**

Drs. Arnold, Thompson, and Staff.

**Surg. 104b.**

Senior students are assigned to all patients on Neurosurgery as they are admitted. Weekly conferences in patient care and x-ray diagnosis are held. Daily ward rounds are made. Some introduction is given to office practice of neurosurgery by frequent contact with the neurosurgical problems seen in a physician's office.

**DIVISION OF ORTHOPEDIC SURGERY**

Drs. Voshell, Rogers, Ullrich, Tansey, Wilder and Staff.

**Surg. 103c.**

Junior students are assigned to this division in the Outpatient Departments at University and Mercy Hospitals. Patients are seen for diagnosis and postoperative care. Instruction is given in the application of plaster casts and in the ambulatory management of orthopedic problems. Occasion is given to instruction in the Physical Therapy of patients with orthopedic disease.

**Surg. 104c.**

Senior students are assigned patients both on the surgical wards and in the Emergency Room. They participate in the care of these patients, and are given instruction in the application of traction and plaster casts. Frequent ward rounds are held at the Kernan's Hospital for Crippled Children.

**DIVISION OF UROLOGICAL SURGERY**

Drs. Young, Mays, Haines and Staff.

**Surg. 103d.**

Instruction is given to Junior students in this division in the diagnosis of urologic disease of both men and women. The general aspects of instrumentation are discussed and the roentgenologic evidence of urologic disease is emphasized.

**Surg. 104d.**

Students are assigned patients in the University Hospital wards. Further instruction is given in diagnosis and instrumentation of these patients and in the x-ray diagnosis of urologic disease.

**DIVISION OF OTOLARYNGOLOGY**

Drs. Blanchard, O'Rourke, Fox, Kyper, Rich, Kayser, Isaacs, Schwartz and Staff.

**Surg. 103e.**

Junior students are given a chance to examine the ears, nose and throats of patients in the Outpatient Department. Instruction is given in hearing deficits and in the management of ambulatory patients with minimal otolaryngological disease.

**Surg. 104e.**

Senior students are assigned patients as they are admitted to this service, and weekly ward rounds are held.

**DIVISION OF THORACIC SURGERY**

Dr. Cowley and Staff.

**Surg. 104f.**

Senior students participate in the care of these patients on the hospital wards at University and Mt. Wilson Hospitals, and in the operating rooms of these hospitals. Instruction in diagnostic bronchoscopy. Ward rounds and x-ray conferences are used in the instruction of the students.

**MEDICAL LIBRARY**

HOWARD ROVELSTAD, A.B., M.A., B.S.L.S. .... Director of Libraries and Professor  
of Library Science

IDA MARIAN ROBINSON, A.B., B.S.L.S. .... Librarian and Associate Professor  
of Library Science

HILDA E. MOORE, A.B., A.B.L.S. .... Associate Librarian

FLORENCE R. KIRK ..... Reference Librarian

HARRIETTE W. SHELTON, A.B., B.S.L.S. .... Chief Cataloguer

ALICE M. MELVIN, A.B. .... Cataloguer

EDITH M. COYLE, A.B., A.B.L.S., M.A. .... Serials Librarian

ELIZABETH E. McCOACH ..... Assistant to the Librarian

PATRICIA J. TERZI ..... Assistant to the Cataloguers

**ART AS APPLIED TO MEDICINE**

CARL DAME CLARKE ..... Associate Professor of Art as Applied to Medicine

THOMAS M. STEVENSON, JR. .... Instructor in Art as Applied to Medicine

RAYMOND ROCHKIND ..... Assistant in Art as Applied to Medicine

GUENTER W. SONNTAG ..... Medical Photographer

This department is maintained for the purpose of supplying pictorial and plastic illustrations for visual teaching in the classrooms of the medical school and for publication in scientific periodicals. This also includes the preparation of illustrations for use in public relations, drawings, paintings, photography, cinematography, lithography, and moulage. Research in prosthetics is also carried out in this department.

Special courses of instruction are given to qualified students.

## POSTGRADUATE COURSES

## COMMITTEE ON POSTGRADUATE STUDIES

HOWARD M. BUBERT, *Chairman and Director*DIETRICH C. SMITH, *First Vice-Chairman*LOUIS A. M. KRAUSE, *Second Vice-Chairman*ELIZABETH B. CARROLL, *Executive Secretary*

Clifford G. Blitch	Frank H. J. Figge	Milton S. Sacks
J. Edmund Bradley	Arthur L. Haskins	William H. Triplett
Otto C. Brantigan	John C. Krantz, Jr.	Allen F. Voshell
W. Carl Ebeling, III	J. Morris Reese	John A. Wagner
	Harry M. Robinson, Jr.	
	WILLIAM S. STONE, <i>Dean, Ex-officio</i>	

The Postgraduate Committee has arranged for a medical seminar cruise to the Caribbean the week of November 30, 1957, with one day stopovers at Nassau and Havana. There will be 15 hours of medical teaching for which the American Academy of General Practice will allow Category I credit.

The following intramural postgraduate courses are given:

## ANATOMY:

*General Anatomy.* Designed to prepare candidates for the examination of the American Board of General Surgery and Surgical Specialties. There is no strict rule governing either the content or duration of the course. Students may dissect a complete cadaver or any particular region in which they may be interested. Tuition is arranged according to registration, content and duration.

*Anatomy of the Head and Neck as applied to the Eye, Ear, Nose and Throat.* Duration 150 hours, beginning on October 1 and ending approximately February 28, comprising two periods of four hours per week. Tuition is \$150.00. Details as to time of the individual periods will be arranged with candidates who wish to take the course.

*Clinical Anatomy.* Designed to prepare candidates for the examination in Anatomy of the American Board of Surgery. This is a ninety-hour course (3 hours a day, 2 days a week) given in conjunction with the regular sophomore medical course. Tuition is \$150.00.

## PATHOLOGY

*Neuropathology.* Designed to aid in meeting the requirements of the specialty boards in neurological sciences, and covers basic studies in diseases of the central nervous system. Duration is six months, full time. Tuition is \$200.00 plus \$10.00 laboratory fee.

## GYNECOLOGY

*Gynecology, Oncology and Female Urology.* This is a REVIEW designed primarily for the general practitioner. Students attend lectures, ward rounds and clinics and OBSERVE operations. Full time for ten weeks. Tuition is \$125.00.

## GYNECOLOGY AND OBSTETRICS

*Gynecology and Obstetrics.* This is a REVIEW designed for the general practitioner. Students attend lectures, ward rounds and clinics, and OBSERVE operations and deliveries. Full time for twelve weeks. Tuition is \$150.00.

## BASIC SCIENCES

*Basic Sciences as They Apply to the Practice of Medicine.* Designed to familiarize students with the advances in basic sciences during recent years. The course consists of 21 periods of 2 hours each, once a week between January and June. Tuition is \$50.00.

Full descriptions of these courses are available. Inquiries should be addressed to the Postgraduate Committee, University of Maryland School of Medicine, Baltimore 1, Maryland.

## LECTURERS IN POSTGRADUATE MEDICINE

Thurston R. Adams	Frederick P. Ferguson	J. Morris Reese
Marie A. Andersch	Frank H. J. Figge	Herbert E. Reifschneider
James G. Arnold, Jr.	Jacob E. Finesinger	Dexter L. Reimann
Francis J. Borges	A. H. Finkelstein	Harry M. Robinson, Jr.
Harry C. Bowie	Russell S. Fisher	Harry M. Robinson, Sr.
J. Edmund Bradley	Albert E. Goldstein	Raymond C. V. Robinson
Otto C. Brantigan	Lewis P. Gundry	Milton S. Sacks
George H. Brouillet	Nathan B. Herman	John E. Savage
Howard M. Bubert	Harry C. Hull	Leonard Scherlis
Raymond M. Burgison	J. Mason Hundley, Jr.	Sidney Scherlis
T. Nelson Carey	D. Frank Kaltreider	Emil G. Schmidt
Robert F. Chenowith	Theodore Kardash	William B. Settle
Ernest I. Cornbrooks, Jr.	Vernon E. Krah	Dietrich C. Smith
Edward F. Cotter	John C. Krantz, Jr.	Merrill Snyder
R. Adams Cowley	Louis A. M. Krause	Melchijah Spragins
Richard J. Cross, Jr.	Arnold F. Lavenstein	Edwin H. Stewart, Jr.
John DeCarlo, Jr.	C. Edward Leach	W. Houston Toulson
John M. Dennis	Ephraim T. Lisansky	Henry F. Ullrich
Francis G. Dickey	William S. Love, Jr.	Allen Fiske Voshell
William K. Diehl	William V. Lovitt, Jr.	John A. Wagner
Everett S. Diggs	Hugh B. McNally	Wallace Walker
D. McClelland Dixon	Howard B. Mays	Milton J. Wilder
Louis H. Douglass	Samuel Morrison	Walter D. Wise
J. Sheldon Eastland	H. Whitman Newell	Henry L. Wollenweber
W. Carl Ebeling, III	Robert H. Oster	Theodore E. Woodward
Charles Reid Edwards	Frank J. Otenasek	Joseph B. Workman
Monte Edwards	Ross Z. Pierpont	Robert B. Wright
William L. Fearing	Maurice C. Pincoffs	George H. Yeager

# FIRST YEAR SCHEDULE

First Semester, September 12, 1957 to January 25, 1958

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9:00 to 10:00	Histology and Embryology		1st 3 lectures Orientation 9:00-9:50 A.H.	Neuro-Anatomy B <sub>2</sub> Lab.	Histology and Embryology B <sub>2</sub> Lab.	Man and His Environment C.H. 9:00-10:50
10:00 to 11:00	Neuro-Anatomy B <sub>2</sub> Lab.	Neuro-Anatomy B <sub>2</sub> Lab.	Histology and Embryology 9:00-12:00 B <sub>2</sub> Lab.			
11:00 to 12:00						Psychiatry Room 171 P.I. 11:15-1:00
12:00 to 1:00			Lunch			
1:00 to 2:00	Gross Anatomy Lecture A.H.	Gross Anatomy Conference A.H.		Gross Anatomy Lecture A.H.	Gross Anatomy Conference A.H.	
2:00 to 5:00	Gross Anatomy Lab, B1 Lab.	Gross Anatomy Lab, B1 Lab, Neuro-Anatomy	FREE	Gross Anatomy Lab, B1 Lab, Neuro-Anatomy	Gross Anatomy Lab, B1 Lab.	

A.H.—Anatomical Hall, Upper Hall, 522 West Lombard St.

B1—1st floor, Bressler Bldg.—Laboratory—29 S. Greene St.

B<sub>2</sub>—2nd floor, Bressler Bldg.—Laboratory—29 S. Greene St.

C.H.—Chemical Hall, Lower Hall, 522 West Lombard St.

P.I.—Psychiatric Institute, 643 Redwood St.



# FIRST YEAR SCHEDULE

Second Semester, January 27, 1958 to May 29, 1958

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9:00 to 9:50	Biochem. Lect. <i>Adm. 1</i>	Biochem. Lect. <i>Adm. 1</i>	Biochem. Lect. <i>Adm. 1</i>	Biochem. Lect. <i>Adm. 1</i>	Biochem. Lect. <i>Adm. 1</i>	Man and His Environment <i>C.H.</i> 9:00 - 10:50
10:00 to 10:50	Physiol. Lect. <i>B<sub>2</sub></i>	Biochem. Conf. <i>Adm. 1</i>	Physiol. Lect. <i>B<sub>2</sub></i>	Biochem. Conf. <i>Adm. 1</i>	Physiol. Lect. <i>B<sub>2</sub></i>	
11:00 to 11:50	Physiol. Conf. <i>B<sub>2</sub></i>	Physiol. Lect. <i>B<sub>2</sub></i>	Physiol. Conf. <i>B<sub>2</sub></i>	Physiol. Lect. <i>B<sub>2</sub></i>	Biostatistics <i>Adm. 1</i>	Psychiatry Room 171 P.I. 11:15 - 1:00
12:00 to 1:00	LUNCH					
1:00 to 5:00	Sect. A Physiol. Lab. B4 Lab. 1:00 - 5:00 Sect. B Psychiatry Room 171 P.I. 1:00 - 2:00 Biochem. 3rd floor 31 S. Greene St. 2:00 - 5:00	Sect. B Physiol. Lab. B4 Lab. 1:00 - 5:00 Sect. A Psychiatry Room 171 P.I. 1:00 - 2:00 Biochem. 3rd floor 31 S. Greene St. 2:00 - 5:00	FREE	Sect. A Physiol. Lab. B4 Lab. 1:00 - 5:00 Sect. B Psychiatry Room 171 P.I. 1:00 - 2:00 Biochem. 3rd floor 31 S. Greene St. 2:00 - 5:00	Sect. B Physiol. Lab. B4 Lab. 1:00 - 5:00 Sect. A Psychiatry Room 171 P.I. 1:00 - 2:00 Biochem. 3rd floor 31 S. Greene St. 2:00 - 5:00	

*Adm. 1*—1st floor, Administration Bldg.—Lecture Hall—520 W. Lombard St.

*B<sub>2</sub>*—2nd floor, Bressler Bldg.—Lecture Hall—29 S. Greene St.

*B<sub>4</sub>*—4th floor, Bressler Bldg.—Laboratory—29 S. Greene St.

*C.H.*—Chemical Hall, Lower Hall—522 W. Lombard St.

*P.I.*—Psychiatric Institute, 643 Redwood St.

# SOPHOMORE SCHEDULE

First Semester, September 12, 1957 to January 25, 1958

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30 to 9:20		Pathology Lect. C.H.	Pharmacology Lect. B2			
9:30 to 10:20	Psychiatry P.I. 171	Microbiology	Microbiology	Microbiology	Microbiology	Correlative Medicine P.I. 171 9:00 - 11:00
10:30 to 11:20	Pharmacol. Lect. B2					
11:30 to 12:20	Pathology Lect. C.H.					
12:30 to 1:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
1:00 to 2:00	Pathology Lect. C.H.	Clin. Path. Lect. B2	Pathology Lect. C.H.	Sect. A Pharmacol. Lect. B2 Sect. B FREE	Sect. A FREE Sect. B Pharmacol. Lect. B2	
2:00 to 5:00	Pathology Lab. 2nd floor 31 S. Greene St.	Clin. Path. Lab. B5	Pathology Lab. 2nd floor 31 S. Greene St.	Sect. A Pharmacol. Lab. Sect. B FREE	Sect. A FREE Sect. B Pharmacol. Lab.	

B2—2nd Floor Bressler Building  
B5—5th Floor Bressler Building

P.I.—Psychiatric Institute  
C.H.—Chemical Hall

# SOPHOMORE SCHEDULE

Second Semester, January 27, 1958 to May 29, 1958

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00 to 8:50	Pathology Lect. C.H.	Pathology Lect. C.H.		Pathology Lect. C.H.		
9:00 to 9:50	Pathology Lab. 2nd floor 31 S. Greene St.	Pathology Lab. 2nd floor 31 S. Greene St.	Pharmacol. Lect. B2	Pathology Lab 2nd floor 31 S. Greene St.	Preventive Medicine B2	Correlative Medicine P.I. 171
10:00 to 10:50			Surgical Anatomy		Pharmacol. Lect. C.H.	
11:00 to 12:00					Psychiatry 11:30 - 1:00 P.I. 171	
12:00 to 1:00	LUNCH	LUNCH		LUNCH	LUNCH	
1:00 to 1:50	Neurology C.H.	Clin. Path. Lect. B2		Pharmacol. Lect. B2		
2:00 to 5:00	Surgical Anatomy	Clin. Path. Pathology Lab. 2nd floor 31 S. Greene St.	FREE	Pharmacol. Lab. Sect. A Physical Diagnosis Sect. B	Sect. B Sect. A	

B2—2nd Floor Bressler Building  
B5—5th Floor Bressler Building

P.I.—Psychiatric Institute  
C.H.—Chemical Hall

# **JUNIOR SCHEDULE** **1957 - 1958**

Group	Surgery	Medicine 1	Pediatrics	Ob.-Gyn.	Psychiatry	Medicine 2
1						
2	Sept. 12-Nov. 6, 1957	Nov. 7-Jan. 22, 1958	Jan. 23-Mar. 5, 1958	Mar. 6-April 23, 1958	April 24-May 14, 1958	May 15-June 6, 1958
3					May 15-June 6, 1958	April 24-May 14, 1958
4			April 24-June 6, 1958	Jan. 23-Mar. 5, 1958	Mar. 3-Mar. 26, 1958	Mar. 27-April 23, 1958
5	Nov. 7-Jan. 22, 1958	Sept. 12-Nov. 6, 1957	Mar. 6-April 23, 1958	April 24-June 6, 1958	Mar. 27-April 23, 1958	Mar. 3-Mar. 26, 1958
6					Jan. 23-Feb. 12, 1958	Feb. 13-Mar. 5, 1958
7					Feb. 13-Mar. 5, 1958	Jan. 23-Feb. 12, 1958
8	Jan. 23-Mar. 26, 1958	Mar. 27-June 6, 1958	Sept. 12-Oct. 23, 1957	Oct. 24-Nov. 26, 1957	Dec. 2-Dec. 21, 1957	Jan. 2-Jan. 22, 1958
9					Jan. 2-Jan. 22, 1958	Dec. 2-Dec. 21, 1957
10			Dec. 2-Jan. 22, 1958	Sept. 12-Oct. 23, 1957	Oct. 24-Nov. 6, 1957	Nov. 7-Nov. 26, 1957
11	Mar. 27-June 6, 1958	Jan. 23-Mar. 26, 1958	Oct. 24-Nov. 26, 1957	Dec. 2-Jan. 22, 1958	Nov. 7-Nov. 26, 1957	Oct. 24-Nov. 6, 1957
12					Sept. 12-Oct. 2, 1957	Oct. 3-Oct. 23, 1957
					Oct. 3-Oct. 23, 1957	Sept. 12-Oct. 2, 1957

# SENIOR SCHEDULE

## 1957 - 1958

Group	Sept. 12- Oct. 9, 1957	Oct. 10- Nov. 6	Nov. 7- Dec. 5	Dec. 6- Jan. 13, 1958	Jan. 14- Feb. 5	Feb. 6- Mar. 5	Mar. 6- April 2	April 7- May 5	May 6- June 3, 1958
1	Medicine	Medicine	Elective	Psychiatry	Pediatrics	Obstetrics- Gynecology	Surgery	Surgery	RODA*
2	Elective	Medicine	Medicine	Obstetrics- Gynecology	Psychiatry	Pediatrics	RODA	Surgery	Surgery
3	Medicine	Elective	Medicine	Pediatrics	Obstetrics- Gynecology	Psychiatry	Surgery	RODA	Surgery
4	Surgery	Surgery	RODA	Medicine	Medicine	Elective	Psychiatry	Pediatrics	Obstetrics Gynecology
5	RODA	Surgery	Surgery	Elective	Medicine	Medicine	Obstetrics Gynecology	Psychiatry	Pediatrics
6	Surgery	RODA	Surgery*	Medicine	Elective	Medicine	Pediatrics	Obstetrics- Gynecology	Psychiatry
7	Psychiatry	Pediatrics	Obstetrics- Gynecology	Surgery	Surgery	RODA	Medicine	Medicine	Elective
8	Obstetrics- Gynecology	Psychiatry	Pediatrics	RODA	Surgery	Surgery	Elective	Medicine	Medicine
9	Pediatrics	Obstetrics- Gynecology	Psychiatry	Surgery	RODA	Surgery	Medicine	Elective	Medicine

\*RODA—Radiology, Ophthalmology, Dermatology, Anesthesiology.



## MATRICULANTS

SENIOR CLASS, SEPTEMBER 20, 1956 TO JUNE 8, 1957

Abrahams, Stuart Joel, A.B., <i>Western Maryland College, 1953</i>	Maryland
Aftandilian, Emil Emanuel, <i>University of Maryland</i>	Iran
Allen, Charles James, A.B., <i>Johns Hopkins University, 1953</i>	New Jersey
Arons, Marvin Shield, B.S., <i>Yale University</i>	Connecticut
Balco, Selina Gloria, B.S., <i>University of Maryland, 1953</i>	Maryland
Bathon, Bernard Neil, B.S., <i>Loyola College, 1953</i>	Maryland
Beeby, James Leonard, B.S., <i>University of Maryland, 1953</i>	Maryland
Berger, Ronald Richard, <i>University of Maryland</i>	Maryland
Bormel, Paul, B.S., <i>University of Maryland, 1953</i>	Maryland
Bouzoukis, James Kostas, A.B., <i>Harvard College, 1952</i>	New Hampshire
Brooks, Herbert Edwin, A.B., <i>Wabash College, 1951</i>	Maryland
Bucy, Donald Louis, B.S., <i>Georgetown University, 1953</i>	Maryland
Bulkeley, John Thomas, B.S., <i>Salisbury State Teachers College, 1951</i>	Maryland
Burchell, Mary Cecelia, A.B., <i>Columbia University, 1951</i>	Massachusetts
Butt, Harvey Rudolph, Jr., <i>University of Maryland</i>	Maryland
Calciano, Anthony James, <i>University of Vermont</i>	Connecticut
Cameron, Ronald Ross, A.B., <i>Johns Hopkins University, 1953</i>	Maryland
Carlin, Robert Anthony, <i>University of Maryland</i>	New Jersey
Cohen, Marvin, B.S., <i>University of Maryland, 1955</i>	Maryland
Conway, John Vincent, B.S., <i>University of Delaware, 1952</i>	Delaware
Dean, Joseph Oliver, Jr., B.S., <i>University of Maryland, 1955</i>	Maryland
Engnoth, Milton Loring, B.S., <i>University of Maryland, 1955</i>	Maryland
Ericsson, Arthur Dale, B.S., <i>University of Miami, 1953</i>	Florida
Feldstein, Marvin Allen, <i>Loyola College</i>	Maryland
Fiocco, Vincent James A.B., <i>Columbia University</i>	New York
Gallo, Sebastian John, A.B., <i>Johns Hopkins University, 1953</i>	Connecticut
Garcia, Nicolas Antonio, III, A.B., <i>Johns Hopkins University, 1953,</i> <i>Puerto Rico</i>	
Gauthier, Donald William, A.B., <i>St. Anselm's College, 1953</i>	New Hampshire
Gerber, Allen Sidney, B.S., <i>University of Maryland, 1955</i>	Maryland
Gilbert, Verne Ephraim, A.B., <i>University of California, 1953</i>	California
Gilmore, Loretta Ann Kurz, B.S., <i>University of Maryland, 1950</i>	Maryland
Hamblin, Eldon Benorr, B.S., <i>University of Utah, 1953</i>	Arizona
Hammann, John Henry, Jr., B.S., <i>Loyola College, 1953</i>	Maryland
Hammond, Anthony Francis, Jr., B.S., <i>Seton Hall University, 1953</i>	New Jersey
Hanashiro, Paul Katsuto, A.B., <i>Indiana University, 1953</i>	Hawaii
Henderson, Charles Morgan, B.S., <i>University of Maryland, 1955</i>	Maryland
Hettleman, Harold Jack, B.S., <i>Loyola College, 1953</i>	Maryland
Hickman, Robert Othello, A.B., <i>University of Utah, 1951</i>	Utah
Ho, Richard Koon Bow, A.B., <i>University of Hawaii, 1951; M.S., University of</i> <i>Hawaii, 1953</i>	Hawaii
Holdefer, Wilfred Ferber, Jr., <i>Loyola College, 1952</i>	Maryland
Jelenko, Carl, III, B.S., <i>Loyola College, 1953</i>	Maryland
Jones, Norman Paul, <i>Georgetown University</i>	Maryland
Kahan, Edwin Louis, B.S., <i>University of Maryland, 1953</i>	Maryland

Kennedy, William Frank, Jr., B.S., <i>Bates College, 1952</i>	Maine
Kogan, Leonard Louis, <i>Dartmouth College</i>	Maryland
Kronthal, Herbert Lee, B.S., <i>University of Maryland, 1955</i>	Maryland
Lansinger, Donald Tyson, <i>Loyola College</i>	Maryland
Largey, David Poole, A.B., <i>Washington and Lee University, 1950</i>	Pennsylvania
Laster, James Preston, B.S., <i>Loyola College, 1948</i>	Maryland
Laughlin, Joseph Chorpeneing, <i>West Virginia University</i>	West Virginia
Lentz, George Alvin, Jr., A.B., <i>Johns Hopkins University, 1953</i>	Maryland
Lerner, Sidney Isaac, B.S., <i>University of Maryland, 1953</i>	Maryland
Levin, Richard Leonard, B.S., <i>University of Maryland, 1953</i>	Maryland
Lynch, Peter Paul, <i>Mount St. Mary's College</i>	Massachusetts
Macek, Francis John, Jr., B.S., <i>Loyola College, 1953</i>	Maryland
Mehlhop, Fred Henry, A.B., <i>Johns Hopkins University, 1953</i>	New York
Moomau, Frederick, A.B., <i>West Virginia University, 1953</i>	West Virginia
Mullan, Paul Aloysius, B.S., <i>Seton Hall University, 1952</i>	New Jersey
Nasdor, Herbert Harvey, <i>Loyola College</i>	Maryland
Niznik, Theodore Thaddeus, Jr., B.S., <i>Loyola College, 1953</i>	Maryland
Oliveras-Armstrong, Francisco Enrique, <i>University of Puerto Rico,</i>	Puerto Rico
Oppegard, Charles Roger, B.S., <i>University of Maryland, 1955</i>	Maryland
Plugge, Frederick William, IV, A.B., <i>University of Pennsylvania, 1953,</i>	District of Columbia
Poland, Warren Soul, B.S., <i>University of Maryland, 1955</i>	Maryland
Quinones-Segarra, Jose Georgino, B.S., <i>University of Puerto Rico, 1953,</i>	Puerto Rico
Rairigh, Donald Wilson, <i>Johns Hopkins University</i>	Maryland
Raleigh, John Joseph, B.S., <i>Roanoke College, 1952</i>	New York
Randall, Louis Leroy, B.S., <i>Morgan State College, 1953</i>	Maryland
Rappoport, William Joseph, A.B., <i>Johns Hopkins University, 1953</i>	Maryland
Reba, Richard Charney, <i>Loyola College</i>	Maryland
Restivo, Marion Charles, A.B., <i>Loyola College, 1953</i>	Maryland
Rever, George Wright, B.S., <i>University of Maryland, 1950</i>	Maryland
Robinson, Lynn Bennion, B.S., <i>University of Utah, 1953</i>	Utah
Schmukler, Morton, A.B., <i>Johns Hopkins University, 1953</i>	Maryland
Schocket, Lee Irwin, B.S., <i>University of Maryland, 1955</i>	Maryland
Schwartz, Franklin David, B.S., <i>University of Maryland, 1955</i>	Maryland
Shapiro, Morton Walter, B.S., <i>University of Maryland, 1955</i>	Maryland
Shaw, George Patrick, B.S., <i>Alma College, 1953</i>	Michigan
Shaw, Walter Morgan, A.B., <i>Lafayette College, 1951</i>	Ohio
Shear, Leroy, A.B., <i>Johns Hopkins University, 1953</i>	Maryland
Siegel, Howard Sheldon, A.B., <i>Western Reserve University, 1953</i>	Ohio
Simmons, William Arthur, A.B., <i>West Virginia University, 1953,</i>	West Virginia
Spence, Kenneth Franklin, Jr., B.S., <i>Washington and Lee University, 1953,</i>	Maryland
Spencer, Maitland, G., B.S., <i>Brigham Young University, 1953</i>	Utah
Spencer, Max Jay, B.S., <i>University of Utah, 1952</i>	Utah
Stang, Mary Louise, B.S., <i>University of Maryland, 1953</i>	Maryland

Stout, Landon Clarke, Jr., <i>University of Maryland</i>	Maryland
Stringham, James Grant, B.S., <i>University of Utah, 1952</i>	Utah
Todd, Nevins Woodcock, Jr., <i>Syracuse University</i>	Maryland
Trupp, Michael Saron, A.B., <i>Western Maryland College, 1953</i>	Maryland
Wilner, Harvey Ira, <i>New York University; University of Vermont</i>	New York
Wilson, Ray Austin, A.B., <i>Johns Hopkins University, 1953</i>	Pennsylvania
Young, Virginia Elizabeth, A.B., <i>Vassar College, 1953</i>	Maryland
Zullo, Leonard Michael, B.S., <i>University of Maryland, 1955</i>	Maryland

## JUNIOR CLASS, September 20, 1956 to June 8, 1957

Alexander, John Thomas, <i>Brigham Young University</i>	Arizona
Aton, James Keyes, B.A., <i>Emory University, 1954</i>	Florida
Bachur, Nicholas Robert, A.B., <i>The Johns Hopkins University, 1954</i>	Maryland
Bartlett, William George, <i>University of Maryland</i>	Maryland
Baumgardner, George Robert, <i>University of Maryland</i>	Maryland
Berg, Elliott Morton, <i>University of Maryland</i>	Maryland
Berman, Maurice Jerrold, B.S., <i>University of Maryland, 1953</i>	Maryland
Bloom, Gerald Edward, <i>Cornell University</i>	Maryland
Brager, Stuart Harmon, B.S., <i>University of Maryland, 1954</i>	Maryland
Bronstein, Howard Daniel, <i>University of Maryland</i>	Maryland
Burke, George James, B.S., <i>University of Maryland, 1954</i>	Maryland
Caplan, Raymond Frank, <i>University of Maryland</i>	Maryland
Clark, Gaylord Lee, Jr., B.A., <i>The Johns Hopkins University, 1953;</i> <i>Stanford University</i>	Maryland
Cope, David Arthur, B.A., <i>Lafayette College, 1954</i>	Pennsylvania
Cranley, Robert Emmet, <i>University of Maryland</i>	New Jersey
Curtis, Bruce Nelson, B.A., <i>Brigham Young University, 1954</i>	Arizona
Cushner, Gilbert Bernard, <i>The Johns Hopkins University</i>	Maryland
Damm, Robert Lee, B.S., <i>University of Maryland, 1954</i>	Maryland
Diener, Ronald Lee, <i>University of Maryland</i>	Maryland
Donovan, Raymond Joseph, Jr., B.A., <i>Saint Peter's College, 1954</i>	New Jersey
Economon, Joanne Winslow, <i>George Washington University</i>	Virginia
Erickson, Richard James, B.S., <i>Maryville College, 1954</i>	New Jersey
Farb, Stanley Norman, <i>The Johns Hopkins University</i>	Maryland
Filar, Alfred Anthony, Jr., B.S., <i>Loyola College, 1954</i>	Maryland
Fishkin, Harold Larry, <i>University of Maryland</i>	Maryland
Fitch, Harry John, B.S., <i>University of Maryland, 1951</i>	Maryland
Flynn, Richard Rowan, <i>University of Utah</i>	Utah
Friedlander, Harvey Lee, <i>University of Maryland</i>	Maryland
Gee, Malcolm Van Norman, B.S., <i>Howard University, 1953</i>	Maryland
Goldberg, Neil Morton, <i>University of Maryland</i>	Maryland
Goldgeier, Sheldon, <i>University of Maryland</i>	Maryland
Goldstein, Barrett, A.B., <i>The Johns Hopkins University, 1954</i>	Maryland
Greene, Frank Philip, <i>The George Washington University</i>	Maryland
Hale, Meredith Saffell, B.S., <i>University of Maryland, 1954</i>	Maryland
Hall, William Popplein, III, B.S., <i>Union College, 1954</i>	Maryland
Harshey, John Simpson, A.B., <i>Catawba College, 1954</i>	Pennsylvania



Heck, Albert Frank, B.A., <i>The Johns Hopkins University</i>	Maryland
Hicken, William Joseph, B.A., <i>Loyola College, 1954</i>	Maryland
Holmes, Arthur Clark Loper, <i>Wheaton College</i>	Pennsylvania
Johnson, Robert Harvey, Jr., B.A., <i>Duke University, 1954</i>	Maryland
Karpa, Jay Norman, <i>The Johns Hopkins University</i>	Maryland
Keller, Richard Hubbard, <i>University of Utah</i>	Utah
Kelsh, James Michael, A. B., <i>Columbia University, 1951; Univ. of Maryland,</i>	Maryland
Kelso, James Jude, <i>University of Maryland</i>	Maryland
Kriz, Frank Kenneth, Jr., <i>University of Maryland</i>	Maryland
Levin, Daniel Melvin, B.S., <i>University of Maryland, 1954</i>	Maryland
Levin, Howard Stanley, B.A., <i>Bowdoin College, 1954</i>	Maryland
Litofsky, Arthur, B.S., <i>University of Maryland, 1954</i>	Maryland
Macon, Robert Carpenter, B.S., <i>The George Washington University, 1954,</i>	District of Columbia
Manger, Donald Frederick, B.A., <i>The Johns Hopkins University, 1954,</i>	Maryland
Marshall, William John, Jr., B. S., <i>Muskingum College, 1954</i>	Ohio
McInerney, Gerald Timothy, A.B., <i>West Virginia University, 1954</i>	New York
Mead, Joseph Anthony, Jr., B.A., <i>Loyola College, 1954</i>	Maryland
Merendino, John Jerome, <i>University of Maryland</i>	Maryland
Moore, Ernest Eugene, A.B., <i>West Virginia University, 1954</i>	West Virginia
Mulvaney, Robert Bernard Joseph, B.A., <i>Seton Hall University, 1954,</i>	New Jersey
Neale, Leonard Ernest, III, B.S., <i>University of Maryland, 1953</i>	Maryland
Ortel, Roy Wade, B.A., <i>Gettysburg College, 1951</i>	Maryland
Orth, John Goedeke, B.S., <i>University of Maryland, 1954</i>	Maryland
Ottinger, Ayland Midgley, <i>University of Utah</i>	Utah
Parker, Charles Edwin, B.A., <i>University of Utah, 1953</i>	California
Perez-Santiago, Antonio, <i>University of Puerto Rico</i>	Puerto Rico
Potash, Michael Donald, <i>University of Maryland</i>	Maryland
Rauh, Jay Thomas, <i>University of Maryland</i>	Maryland
Reeder, Maurice Merrick, B.A., <i>Loyola College, 1954</i>	Maryland
Richmond, Lewis Hilliard, <i>University of Maryland</i>	Maryland
Robl, Robert Joseph, <i>University of Maryland</i>	Maryland
Roll, Harold, <i>University of Maryland</i>	Maryland
Searles, Victoria Ann, B.A., <i>University of New York, 1952</i>	Pennsylvania
Sheppard, James Douglass, Jr., B.A., <i>University of Pennsylvania, 1954,</i>	Maryland
Silberstein, Charles Eliot, A.B., <i>Western Maryland College, 1954</i>	Maryland
Sutton, Granger Gideon, Jr., B.S., <i>Massachusetts Institute of Technology, 1954,</i>	District of Columbia
Swanson, Raymond Elmer, B.A., <i>Valparaiso University, 1951; M.S., Wayne</i>	University, 1954
	Illinois
Taylor, James Edgar, Jr., <i>University of Maryland</i>	Maryland
Tilles, Jerome, <i>University of Maryland</i>	Maryland
Tyer, James Harold, B.A., <i>University of Vermont &amp; State Agricultural</i>	College, 1954
	Connecticut

Ward, William Todd, <i>University of Maryland</i>	Maryland
Weyn, Adrian Saltzman, A.P., <i>Gettysburg College, 1954</i>	Maryland
Wolfe, Richard Louis, B.S., <i>William and Mary College, 1952</i>	Maryland
Zieve, Philip David, B.A., <i>Franklin and Marshall College, 1954</i>	Maryland
Zimmerman, James Benson, B.S., <i>University of Cincinnati, 1954</i>	Ohio

## SOPHOMORE CLASS, September 20, 1956 to June 8, 1957

Abramson, David Leavitt, B.S., <i>Loyola College, 1955</i>	Maryland
Adler, Wolfe Nathan, A.B., <i>Franklin &amp; Marshall College, 1955</i>	Maryland
Ances, Isadore George, <i>University of Maryland</i>	Maryland
Ashburn, William Lee, A.B., <i>Western Maryland College, 1955</i>	Maryland
Asrael, Gerson, <i>University of Maryland</i>	Maryland
Broccoli, Anthony Carmino, A.B., <i>Providence College, 1955</i>	Rhode Island
Brown, Fred David, <i>University of Florida</i>	Florida
Cadden, John Francis, <i>University of Maryland</i>	Maryland
Cohen, William Nathan, <i>Johns Hopkins University</i>	Maryland
Cole, Milton Burns, A.B., <i>George Washington (Columbia), 1952</i>	Maryland
Colfelt, Robert Harold, A.B., <i>University of Washington, 1955</i>	Washington
Coursey, John William, B.S., <i>University of Maryland, 1951</i>	Georgia
Courts, Donald Earle, <i>Johns Hopkins University</i>	Maryland
Damiano, Louis M., A.B., <i>Virginia Military Institute, 1955</i>	Massachusetts
Darr, Joseph Leo, <i>LaSalle College, 1955</i>	Maryland
Dawson, Robert Joseph, <i>University of Maryland</i>	Maryland
Demarco, Salvatore Joseph, A.B., <i>Loyola College, 1955</i>	Maryland
Dunseath, William James Ross, B.S., <i>U. S. Naval Academy, 1945</i>	New Jersey
Durkan, James Paul, Jr., A.B., <i>Loyola College, 1955</i>	Maryland
Economon, Straty Harry, B.S., <i>University of Maryland, 1954,</i> District of Columbia	
Falls, William Franklin, Jr., B.S., <i>University of Maryland, 1955</i>	Maryland
Farley, Francis Edward, A.B., <i>Loyola College, 1952</i>	Maryland
Feinberg, Gilbert Nathan, <i>Johns Hopkins University</i>	Maryland
Felsenberg, Stanley Zvi, B.S., <i>University of Maryland, 1954</i>	Maryland
Fletcher, Charles Bryant, A.B., <i>Catholic University, 1952</i>	Maryland
Gallagher, George Cromwell, A.B., <i>Amherst College, 1955</i>	District of Columbia
Gardiner, Theodore David, A.B., <i>Duke University, 1952</i>	Maryland
Glazier, Jon Bennett, <i>University of Maryland</i>	Maryland
Green, Karl Mathias, B.S., <i>University of Maryland, 1955</i>	Maryland
Halle, Carlton Irwin, A.B., <i>Western Maryland, 1955</i>	Maryland
Hanauer, Franklin Alvan, A.B., <i>Harvard College, 1955</i>	Massachusetts
Hatem, Rose Mary, B.S., <i>Washington College, 1955</i>	Maryland
Holt, Robert Stewart, <i>University of Michigan</i>	West Virginia
Ingham, Roger Bowman, A.B., <i>Johns Hopkins University, 1954</i>	Indiana
Irwin, Robert Collier, A.B., <i>Georgetown University, 1953</i>	Maryland
Isaacs, Gilbert Herman, <i>University of Maryland</i>	Maryland
James, Robert Truxton, A.B., <i>Princeton University, 1955</i>	Maryland
Jarboe, James Patrick, <i>University of Maryland</i>	Maryland
Jasion, Arthur Raymond, <i>University of Maryland</i>	Maryland



Jones, Arthur Ford, Jr., <i>University of Maryland</i>	Maryland
Just-Viera, Jorge Orlando, B.S., <i>University of Puerto Rico, 1955</i>	Puerto Rico
King, August Daniel, Jr., <i>University of Maryland</i>	Maryland
Kirsh, Marvin Manes, A.B., <i>Johns Hopkins University, 1955</i>	Maryland
Kleinman, Martin Samuel, <i>University of Maryland</i>	Maryland
Koukoulas, Paul George, A.B., <i>Western Maryland College, 1955</i>	Maryland
Kraut, William, A.B., <i>Brown University, 1955</i>	New Jersey
Lang, Richard Collison, <i>University of Maryland</i>	Maryland
Lewis, Donald Ryan, <i>University of Maryland</i>	Maryland
Lewis, George Needham, III, B.S., <i>Loyola College, 1955</i>	Maryland
Lewis, Jack Covington, <i>University of Maryland</i>	Maryland
Luban, Arthur, A.B., <i>Colorado University, 1955</i>	New Jersey
Mainolfi, Ferdinand Gregory, B.S., <i>Loyola College, 1955</i>	Maryland
McKay, Elmer Stewart, B.S., <i>Grove City College, 1949; M.S. University of Michigan, 1950</i>	Pennsylvania
McManus, Bernard Jerome, <i>University of Maryland</i>	Maryland
McWilliams, Donald Reid, <i>University of Maryland</i>	Maryland
Mercer, Philip Werner, <i>Wheaton College</i>	North Carolina
Morales-Morales, Jose, B.S., <i>University of Puerto Rico, 1955</i>	Puerto Rico
Mower, Morton Maimon, A.B., <i>Johns Hopkins University, 1955</i>	Maryland
Natale, Ralph Donald, A.B., <i>Johns Hopkins University, 1955</i>	Maryland
Nataro, Joseph Francis, <i>University of Maryland</i>	New Jersey
Odend'hal, Fortune, Jr., B.S., <i>Franklin &amp; Marshall College, 1955</i>	Maryland
O'Malley, William Edward, <i>University of Maryland</i>	Pennsylvania
O'Rourke, Thomas Rutter, Jr., <i>University of Maryland</i>	Maryland
Otto, Joseph Rollin, Jr., A.B., <i>Princeton University, 1955</i>	Maryland
Pace, Nicholas Anthony, B.S., <i>Davis &amp; Elkins College, 1955</i>	New York
Pereyo, Jose A., <i>University of Puerto Rico</i>	Puerto Rico
Perras, David Arthur, A.B., <i>Harvard University, 1955</i>	Massachusetts
Pinkner, Lawrence David, <i>Johns Hopkins University</i>	Maryland
Poffenbarger, Arthur Lee, A.B., <i>Virginia Military Institute, 1955</i>	West Virginia
Reda, Mario Joseph, A.B., <i>Loyola College, 1955</i>	Maryland
Rhea, William Edward, B.S., <i>Georgetown University, 1955</i>	West Virginia
Ribner, Herbert, A.B., <i>Yeshiva University, 1938</i>	New York
Roig-Calderon, Ramon Fernando, A.B., <i>University of Puerto Rico, 1955,</i>	Puerto Rico
Rubenstein, Howard Jack, A.B., <i>Lafayette College, 1955</i>	New Jersey
Russo, Gerard Lee, A.B., <i>Loyola College, 1955</i>	Indiana
Rybczynski, Carol Edmund, A.B., <i>Johns Hopkins University, 1955</i>	Maryland
Sax, Daniel Saul, A.B., <i>Johns Hopkins University, 1955</i>	Maryland
Schocket, Stanley Sol, <i>University of Maryland</i>	Maryland
Schroeder, John Raymond, B.S., <i>Loyola College, 1955</i>	Maryland
Serpick, Arthur Allen, <i>University of Maryland</i>	Maryland
Shields, Earl Francis, Jr., A.B., <i>Wittenberg College, 1955</i>	Ohio
Snyder, Stanley Norton, <i>University of Maryland</i>	Maryland
Solomon, Harvey Mark, B.S., <i>Rensselaer Polytechnic Institute, 1955</i>	Maryland
Stump, Beverly Jean, A.B., <i>Hiram College, 1953</i>	Ohio
Syphus, Merrill Tullis, B.S., <i>University of Utah, 1955</i>	Utah
Thomas, Robert Johnson, A.B., <i>Washington &amp; Lee University, 1955</i>	Maryland

Trail, Mervin Lee, A.B., <i>Bridgewater College, 1955</i>	Maryland
Trotter, George Sedding, B.S., <i>University of Florida, 1955</i>	Florida
Varner, Robert Irwin, <i>University of Maryland</i>	Maryland
Washington, Frank Willard, Jr., B.S., <i>Morgan State College, 1954</i>	Maryland
Wilhelmsen, Hans Richard, D.D.S., <i>University of Maryland, 1955</i>	Maryland
Young, Robert Hence, Jr., A.B., <i>Harvard College, 1955</i>	Maryland

## FRESHMAN CLASS, SEPTEMBER 20, 1956 TO JUNE 8, 1957

Alevizatos, Aristides Christ, A.B., <i>Washington &amp; Lee University, 1956</i> ,	
	Maryland
Anderson, Clifton Walter, Jr., A.B., <i>Youngstown University, 1955</i>	Ohio
Armstrong, Warren Wilbur, <i>University of Maryland</i>	Maryland
Awalt, Lawrence Fay, Jr., B.S., <i>Loyola College, 1956</i>	Maryland
Bennett, John Joe, B.S., <i>Marshall College, 1952</i>	Maryland
Berger, Leonard Paul, B.S., <i>Franklin &amp; Marshall College, 1956</i>	Maryland
Bertuch, Albert William, A.B., <i>Johns Hopkins University, 1956</i>	Maryland
Brecher, Herman, B.S., <i>University of Maryland, 1953</i>	Maryland
Brenner, Arnold, <i>Loyola College</i>	Maryland
Brown, Donald, B.S., <i>Brooklyn College, 1951; M.A., Brooklyn College, 1953</i> ,	
	New York
Cederblom, Conlyn, J., A.B., <i>University of Washington, 1956</i>	Washington
Cheeks, Sherrill Calvin, A.B., <i>Bridgewater College, 1956</i>	Maryland
Clark, Francis Alden, Jr., <i>West Virginia University</i>	West Virginia
Crahan, Christopher, III, B.S., <i>Boston College, 1953</i>	Massachusetts
Datlow, Donald William, B.S., <i>George Washington University, 1952;</i>	
<i>M.S., George Washington University, 1954</i>	Maryland
Davidson, Maurice Morton, A.B., <i>Johns Hopkins University, 1956</i>	Maryland
Devenport, Karl Warner, B.S., <i>University of Utah, 1954</i>	Idaho
DeVore, Paul Angus, B.S., <i>Georgetown University, 1956</i>	District of Columbia
Dunn, James Edwin, III, A.B., <i>Johns Hopkins University</i>	Pennsylvania
Farley, Hal Dee, <i>University of Utah</i>	Utah
Fellner, Michael Josef, A.B., <i>Cornell University, 1956</i>	Maryland
Feola, Benjamin John, A.B., <i>Wesleyan University, 1955</i>	Connecticut
Ferciot, Thomas Nathaniel, III, B.S., <i>Loyola College, 1956</i>	Maryland
Figuroa, Julio Enrique, B.S., <i>University of Puerto Rico, 1956</i>	Puerto Rico
Glass, Alvin, B.S., <i>University of Maryland, 1952</i>	Maryland
Goldstein, Burton Jack, B.S., <i>University of Maryland, 1953</i>	Maryland
Grossman, Isaac William, B.S., <i>University of Maryland, 1956</i>	Maryland
Hayden, Franklin Ross, <i>University of Maryland</i>	Maryland
Heefner, Wilson Allen, A.B., <i>Gettysburg College, 1956</i>	Pennsylvania
Henning, George Howard, <i>University of Maryland</i>	Maryland
Herman, Jerome Herbert, <i>University of Maryland</i>	Maryland
Hill, Charles Earl, B.S., <i>Loyola College, 1956</i>	Maryland
Honick, Lawrence Feld, B.S., <i>University of Maryland, 1956</i>	Maryland
Hooper, James Lewis, <i>University of Maryland</i>	Maryland
Huffington, Paul E., <i>Duke University</i>	Maryland
James, Herbert Halpenny, Jr., B.S., <i>Montana State University, 1954;</i>	
<i>M.S., University of Maryland, 1956</i>	Maryland

Jenkins, Guy Eldridge, B.S., <i>Morgan State College, 1948</i>	Maryland
Kesmodel, Charles Raymond, Jr., A.B., <i>Loyola College, 1956</i>	Maryland
Keyser, Ronald Edward, A.B., <i>Lafayette College, 1956</i>	Maryland
King, James Craig, B.S., <i>University of Wisconsin, 1956</i>	New Jersey
Kurad, J. Ward, <i>Johns Hopkins University</i>	Maryland
LaMastra, Philip Michael, A.B., <i>Johns Hopkins University, 1956</i>	Maryland
Laney, Cleatis Edward, A.B., <i>La Sierra College, 1950</i>	Maryland
Latimer, William Eugene, B.S., <i>University of Utah, 1956</i>	Utah
Lavy, Richard Cecil, B.S., <i>Franklin &amp; Marshall College, 1956</i>	Maryland
Leakan, Michael Hubers, A.B., <i>Loyola College, 1956</i>	Maryland
Lesky, Walter Charles, B.S., <i>Loyola College, 1955</i>	Maryland
Lott, Leymond Webster, B.S., <i>Loyola College, 1956</i>	Maryland
Martello, Herbert Augustus, B.S., <i>University of Maryland, 1952</i>	Maryland
Messina, John Joseph, A.B., <i>Johns Hopkins University, 1956</i>	Maryland
Meyer, Paul Donald, A.B., <i>University of Maryland, 1955</i>	Maryland
Mills, Damon Foster, A.B., <i>Lafayette College, 1956</i>	Maryland
Morton, John Charles, A.B., <i>Western Maryland College, 1956</i>	Maryland
Myers, Allen Richard, A.B., <i>University of Pennsylvania, 1956</i>	Maryland
Nicodemus, Robert Browning, A.B., <i>George Washington University, 1956</i>	Maryland
Normanly, Jerrod, A.B., <i>University of California, L. A., 1951; M.A., University of California, L. A., 1956</i>	California
Oldstone, Michael, B.S., <i>University of Alabama, 1954</i>	Florida
Passen, Selvin, <i>University of Maryland</i>	Maryland
Rapoport, Morton I., B.S., <i>Franklin and Marshall, 1956</i>	Maryland
Reed, Jerome McDavid, B.S., <i>University of Maryland, 1956</i>	Maryland
Robinson, Neil Arnold, B.S., <i>Franklin and Marshall, 1956</i>	Maryland
Rogers, Clinton Lloyd, <i>West Virginia University</i>	West Virginia
Rosen, David, B.S., <i>City College of New York, 1955</i>	Connecticut
Ross, Jerome, <i>University of Maryland</i>	Maryland
Salan, Jerry, A.B., <i>St. John's College, 1954</i>	Maryland
Sarni, Robert Peter, B.S., <i>University of Maryland, 1955</i>	New Jersey
Saunders, Elijah, B.S., <i>Morgan State College, 1956</i>	Maryland
Saville, Bruce Geoffrey, A.B., <i>University of Virginia, 1956</i>	New Jersey
Saxberg, Willott David, <i>University of Maryland</i>	Maryland
Shulman, Jonas Alvin, <i>Dartmouth College</i>	Maryland
Sigman, Bernice, <i>Mary Washington College</i>	Maryland
Silverstein, Emanuel Henry, <i>University of Maryland</i>	Maryland
Smith, Charles Pearce, Jr., <i>University of Maryland</i>	Maryland
Smith, George Ignatius, Jr., A.B., <i>Washington and Lee University, 1956</i>	Maryland
Smith, Morton Edward, <i>University of Maryland</i>	Maryland
Standiford, John Willard, A.B., <i>Johns Hopkins University, 1956</i>	Maryland
Stauffer, Martha Elizabeth, A.B., <i>Vassar College, 1956</i>	Maryland
Stofberg, Nathan, B.S., <i>University of Maryland, 1956</i>	Maryland
Stram, John Richard, <i>University of Maryland</i>	Massachusetts
Tate, Wayne Barrett, <i>University of Maryland</i>	Maryland
Tenner, Michael Stephen, A.B., <i>Johns Hopkins University, 1955</i>	Maryland

Toulan, Theodore Francis, B.S., <i>Loyola College, 1956</i>	Maryland
Tritch, Harold Ray, Jr., A.B., <i>Washington Missionary College, 1954</i>	Maryland
Volejak, Charles Buddy, <i>University of Maryland</i>	Maryland
Wallace, John Widtsoe, B.S., <i>University of Utah, 1953; M.A., George Washington University, 1955</i>	Utah
White, Hubert Ruark, Jr., <i>University of Maryland</i>	Maryland
Wood, William Holmes, Jr., A.B., <i>Johns Hopkins University, 1956</i>	Vermont
Yates, James Arthur, A.B., <i>Cornell University, 1956</i>	Pennsylvania
Young, Donald Lawrence, B.S., <i>University of Maryland, 1956</i>	Maryland
Young, Lois Adelaide, B.S., <i>Howard University, 1956</i>	Maryland
Zalis, Edwin G., A.B., <i>Johns Hopkins University, 1956</i>	Florida
Zanker, Theodore, A.B., <i>Bard College, 1956</i>	New York



## INTRAMURAL POSTGRADUATE STUDENTS

January 1957 to May 1957

BASIC SCIENCES AS THEY APPLY TO THE  
PRACTICE OF MEDICINE

Agapitos, George N., M.D.	Cairo, Egypt	<i>Univ. of Athens, Greece</i>
Benda, Rudolf A. J., M.D.	M. Ostrau, Czechoslovakia	<i>Univ. of Munich, Germany</i>
Berstock, Edwin J., M.D.	Dublin, Ireland	<i>Royal College of Surgeons, Ireland</i>
Birk, Karl, M.D.	Pleskau, Russia	<i>Univ. of Restock, Germany</i>
Buell, Martin F., M.D.	Easton, Maryland	<i>Tufts Univ.</i>
Cayetano, Marcelo Y., M.D.	Manila, Philippines	<i>Univ. of Santo Tomas</i>
Chase, Henry V., M.D.	Frederick, Maryland	<i>Univ. of Maryland</i>
Daly, Mary V., M.D.	Silver Spring, Maryland	<i>Univ. of Maryland</i>
deBorja, Pedro, M.D.	Manila, Philippines	<i>Santo Tomas Univ.</i>
deLeon, Augusto R., M.D.	Manila, Philippines	<i>Univ. of Philippines</i>
deLeon, Natividad E., M.D.	Manila, Philippines	<i>Univ. of Philippines</i>
Domanchich, Aurelius, M.D.	Hvar, Yugoslavia	<i>Univ. of Zagreb, Yugoslavia</i>
Duus, Peter, M.D.	Washington, D. C.	<i>Univ. of Heidelberg, Germany</i>
Fesus, Andrew, M.D.	Fiume, Italy	<i>Univ. of Graz, Austria</i>
Flores, Jose, M.D.	Nicaragua	<i>Natl. Med. School of Leon-Nicaragua</i>
Frederick, James N., M.D.	Baltimore, Maryland	<i>West Virginia Univ.</i>
Freinek, Wilfried R., M.D.	Austria	<i>Innsbruck Univ., Austria</i>
Geldrich, John, M.D.	Buenos Aires, Argentina	<i>Univ. of Budapest, Hungary</i>
Gochoco, Jacinto J., M.D.	Mandaluyong Rizal, Philippines	<i>Univ. of Philippines</i>
Golpira, Ataollah, M.D.	Tehran, Iran	<i>Tehran Univ.</i>
Gonzalez, Luis F., M.D.	Rio Grande, Puerto Rico	<i>Univ. of Maryland</i>
Karam, Gabriel, M.D.	Alexandria, Egypt	<i>Alexandria Univ.</i>
Keelan, Edward M., M.D.	Dublin, Ireland	<i>Natl. Univ. of Ireland</i>
Koenker, Rolf-Juergen, M.D.	Kassel, Germany	<i>Univ. of Marburg, Germany</i>
Knopp, Elisabeth M., M.D.	Ebenrode, Germany	<i>Univ. of Heidelberg, Germany</i>
Knopp, Walter, M.D.	Radwanitz, Czechoslovakia	<i>Univ. of Heidelberg, Germany</i>
Kopits, Imre, M.D.	Buenos Aires, Argentina	<i>Univ. of Budapest, Hungary</i>



Kosmahly, Gerhard, M.D.	Germany	<i>Univ. of Berlin, Germany</i>
Layton, Caleb Rodney, M.D.	Centreville, Maryland	<i>Univ. of Maryland</i>
Lin, Chin-Hsin, M.D.	Taipei, Formosa	<i>Natl. Univ. of Taipei, Formosa</i>
Linthicum, Charles M., M.D.	Linthicum Heights, Maryland	<i>Univ. of Maryland</i>
Lotti, Irina	Baltimore, Maryland	<i>Univ. of Latvia, Riga</i>
Masukawa, Jeruo, M.D.	Nagoya, Japan	<i>Nagoya Univ., Japan</i>
McCaul, Kevin F., M.D.	Donepl, Ireland	<i>Univ. College, Dublin</i>
Meloy, John H., M.D.	Claymont, Delaware	<i>Temple Univ.</i>
Mitri, Moufid, M.D.	Beirut, Lebanon	<i>French Faculty of Medi- cine, Beirut, Lebanon</i>
Mould, Leslie L., M.D.	Ontario, Canada	<i>Queen's Univ., Kingston, Canada</i>
Mueller, Charles H., Jr., M.D.	Baltimore, Maryland	<i>Univ. of Maryland</i>
Mueller, Paul G., M.D.	Baltimore, Maryland	<i>Univ. of Maryland</i>
Muse, Joseph E., Jr., M.D.	Baltimore, Maryland	<i>Univ. of Maryland</i>
Navratil, Donald R., M.D.	Silver Lake, Minnesota	<i>Univ. of Minnesota</i>
Nizankowsky, Myron, M.D.	Semiginow, Austria	<i>Jagellouski Univ., Crovcow, Poland</i>
O'Herlihy, Hilary T. St. Clair, M.D.	Cork, Ireland	<i>Natl. Univ. of Ireland</i>
Ozdemir, Refik M., M.D.	Istanbul, Turkey	<i>Istanbul Univ., Turkey</i>
Palarca, Victorio L., M.D.	Manila, Philippines	<i>Univ. of Santo Tomas, Philippines</i>
Ratliff, Cliff, Jr., M.D.	Ellicott City, Maryland	<i>Duke Univ., N. C.</i>
Reichel, Samuel M., M.D.	Baltimore, Maryland	<i>Univ. of Maryland</i>
Russo, Sebastian, M.D.	Baltimore, Maryland	<i>Univ. of Catania, Italy</i>
Sanchez-Leon, Jose M., M.D.	Mexico City, Mexico	<i>Univ. of Mexico</i>
Sheffman, Edward J., M.D.	Halifax, Nova Scotia, Canada	<i>Queen's Univ., Kingston, Ontario, Canada</i>
Smith, Ralph B., M.D.	Dublin, Georgia	<i>Medical College of Georgia</i>
Standard, Raymond L., M.D.	Hartford, Connecticut	<i>Howard College of Medicine</i>
Strohhofer, Anton, M.D.	Germany	<i>Univ. of Munich, Germany</i>
Taavon, Homayoon, M.D.	Teheran, Iran	<i>Teheran Med. Faculty, Iran</i>
Venable, Sidney J., Jr., M.D.	Towson, Maryland	<i>Univ. of Maryland</i>
Villa Santa, Umberto, M.D.	Fiume, Italy	<i>Padova Univ. Med. School Italy</i>
Wenzel, Umberto E., M.D.	Ascoli Piceno, Italy	<i>Univ. of Pisa, Italy</i>
Williams, Charles H., M.D.	Owings Mills, Baltimore, Md.	<i>Univ. of Maryland</i>

## CLINICAL ANATOMY

Belcher, Henry V., M.D.	Norfolk, Virginia	<i>Med. College of Virginia</i>
Brady, Charles W., M.D.	Utica, New York	<i>N. Y. State School of Med.</i>
deVenecia, Nestor F., M.D.	Dagupen City, Philippines	<i>Univ. of Philippines</i>
Givens, Austin E., M.D.	Baltimore, Maryland	<i>Univ. of Maryland</i>
Gorosin, Restituto S., M.D.	Binalbagan Negros Occ., Philippines	<i>Manila Central Univ.</i>
Holt, Edward E., M.D.	Atlanta, Georgia	<i>Howard Univ.</i>
Layug, Pelagio E., M.D.	Manila, Philippines	<i>Univ. of Santo Tomas</i>
Marbella, Fidencio C., M.D.	Laguna, Philippines	<i>Manila Central Univ.</i>
Mueller, Eugene A.	Salem, Ohio	<i>Univ. of Maryland</i>
Sanchez, Adrian	Mexico City, Mexico	<i>Univ. of Mexico</i>
Taavon, Homayoon	Tehran, Iran	<i>Univ. of Tehran</i>
Teeter, James Herring	Taneytown, Maryland	<i>Univ. of Maryland</i>
Walters, Alvin Joslin	Randallstown, Maryland	<i>State Univ. of Iowa</i>
Zadeh, Abas Taleb	Tehran, Iran	<i>Univ. of Tehran</i>

## SUMMARY OF STUDENTS

September 20, 1956 to June 8, 1957

<i>Medical Students</i>	<i>Male</i>	<i>Female</i>	<i>Total</i>
Senior Class	89	5	94
Junior Class	79	2	81
Sophomore Class	90	2	92
Freshman Class	89	3	92
Medical Students	347	12	359

## GEOGRAPHICAL DISTRIBUTION OF MEDICAL STUDENTS

September 20, 1956 to June 8, 1957

Arizona	3	New York	9
California	3	North Carolina	1
Connecticut	6	Ohio	7
Delaware	1	Pennsylvania	11
District of Columbia	6	Rhode Island	1
Florida	6	Utah	12
Georgia	1	Vermont	1
Idaho	1	Virginia	1
Illinois	1	Washington	2
Indiana	2	West Virginia	9
Maine	1		
Maryland	236	United States Possessions	
Massachusetts	7	Hawaii	3
Michigan	1	Puerto Rico	8
New Hampshire	2	Foreign	
New Jersey	16	Iran	1

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William H. Triplett, M.D.

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William H. Triplett, M.D.

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Gibson J. Wells, M.D.

Frank K. Morris, M.D.

J. Morris Reese, M.D.

Harry M. Robinson, Jr., M.D.

*Library Committee*

Milton S. Sacks, M.D.

*Representatives**General Alumni Board*

William H. Triplett, M.D.

Thurston R. Adams, M.D.

Daniel J. Pessagno, M.D.

*Representatives**Editorial Board, Bulletin*

Harry C. Hull, M.D.

Albert E. Goldstein, M.D.

William B. Long, Jr., M.D. (*ex-officio*)*Nominating Committee*Dexter L. Reimann, M.D., *Chairman*

S. Edwin Muller, M.D.

J. Howard Franz, M.D.

Howard B. Mays, M.D.

W. Kenneth Mansfield, M.D.

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J. Sheldon Eastland, M.D.

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(Here state amount or describe property)

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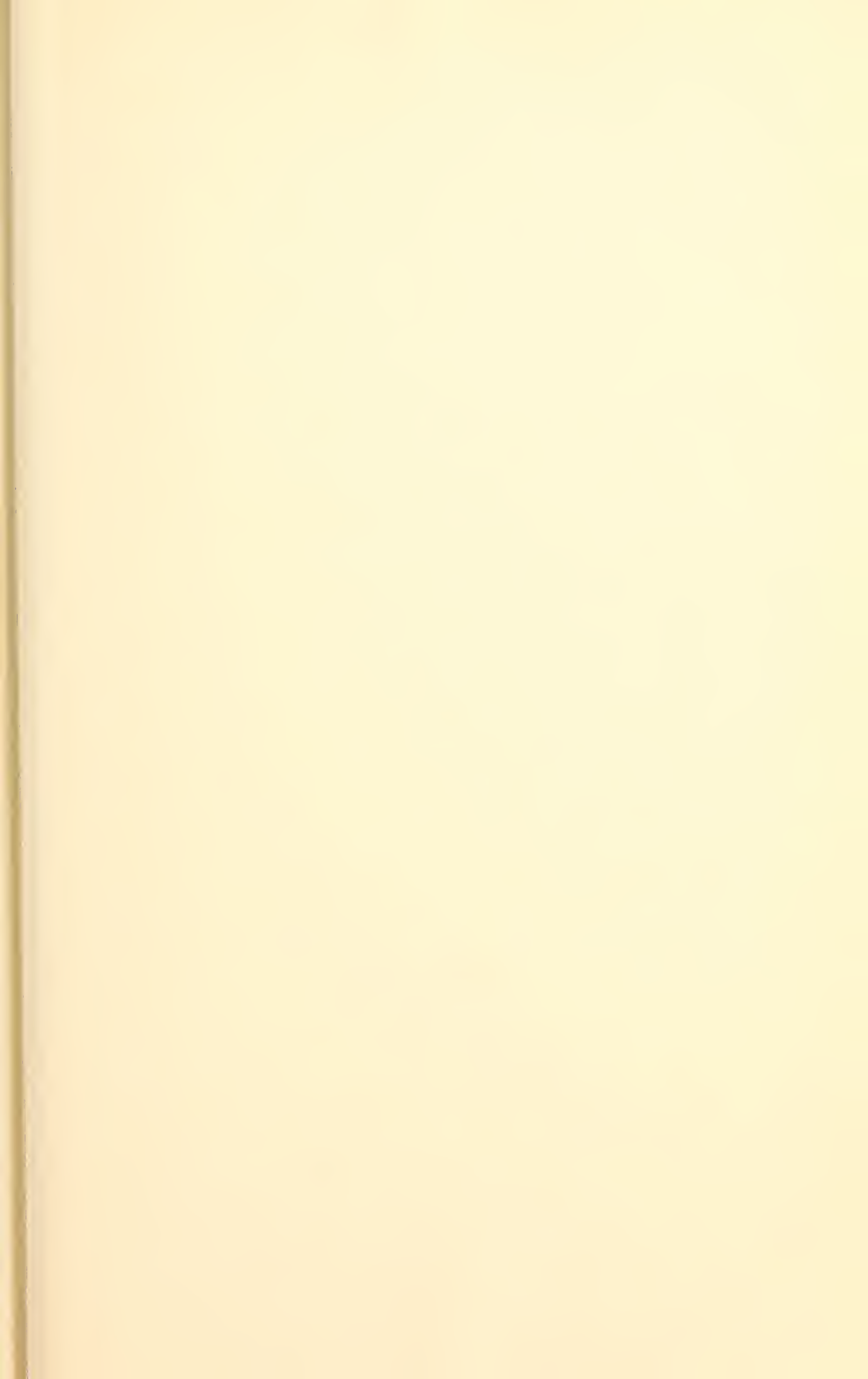


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#### NOTE

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Catalogue of  
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and  
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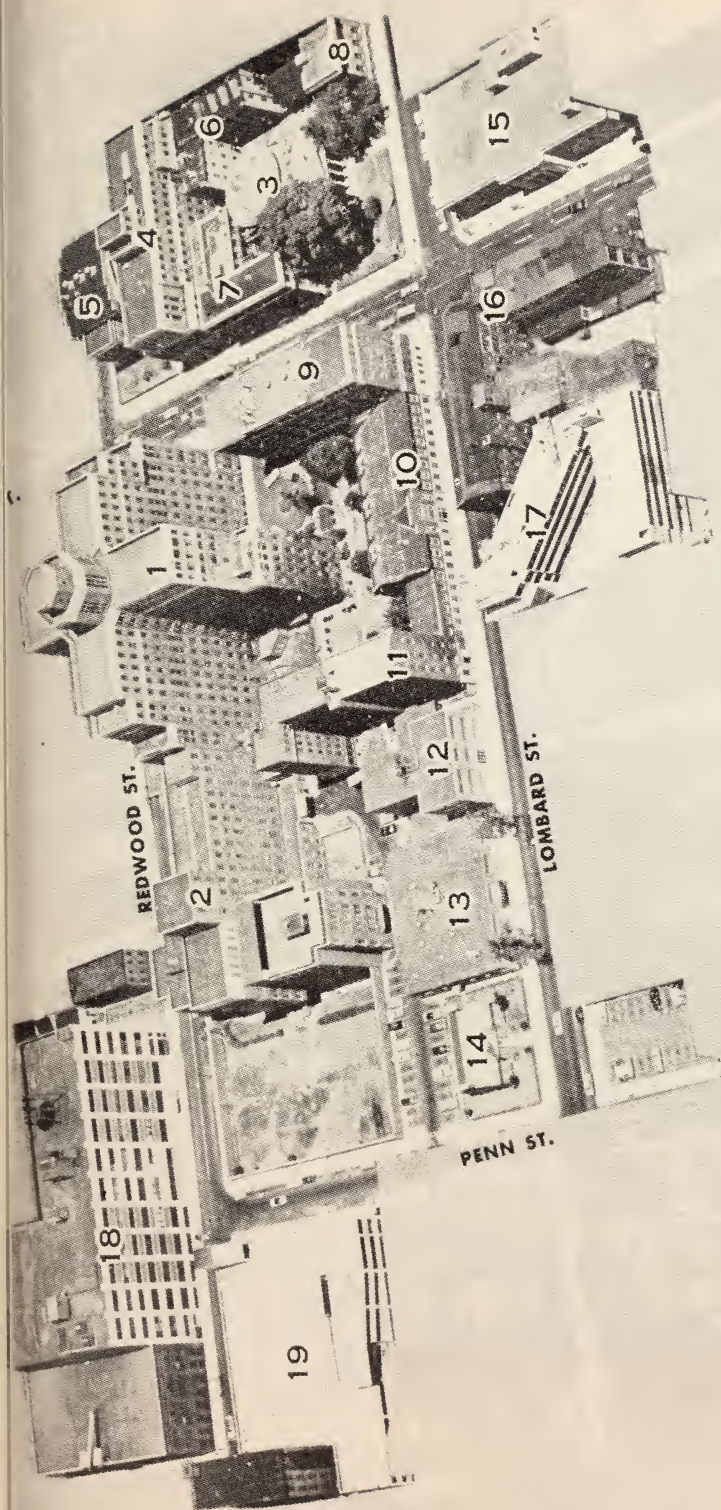
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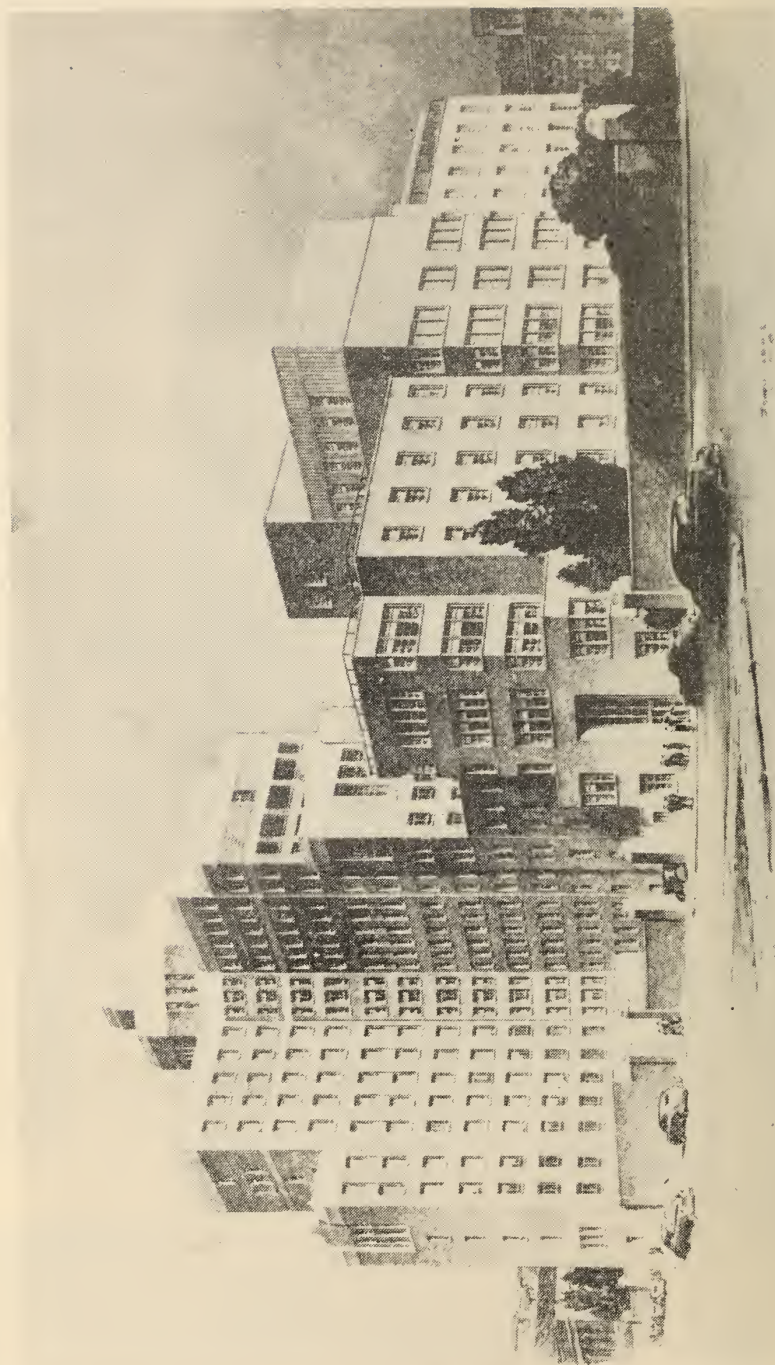
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## BALTIMORE CAMPUS UNIVERSITY OF MARYLAND

- |                                       |  |
|---------------------------------------|--|
| 1. UNIVERSITY HOSPITAL—UH             | 11. NURSES' RESIDENCE—NR   |
| 2. PSYCHIATRIC INSTITUTE—PI           | 12. SCHOOL OF NURSING (WHITEHURST HALL)—WH                                 |
| 3. MEDICAL BUILDING (DAVIDGE HALL)—DH | 13. SCHOOL OF PHARMACY (DUNNING HALL)—DH                                   |
| 4. BRESSLER RESEARCH BUILDING—BRB     | 14. KELLY MEMORIAL—KM  |
| 5. SCHOOL OF LAW—SL                   | 15. MEDICAL SCIENCES LIBRARY—MSL   |
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| 7. MEDICAL TECHNOLOGY BUILDING—MTB    | 17. PLANNED UNION-DORMITORY—UD   |
| 8. ADMINISTRATION BUILDING—AB         | 18. PLANNED FACILITY FOR ADMINISTRATION, BASIC SCIENCES AND PHYSICAL PLANT |
| 9. SCHOOL OF DENTISTRY—SD             | 19. PARKING GARAGE   |
| 10. DENTAL CLINIC—DC                  |  |





University Hospital Showing the Psychiatric Institute in the Foreground



*The Frank C. Bressler Research Laboratory*

1959

1960

## JANUARY 1959

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## OCTOBER

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# CALENDAR

*Academic Year—September 10, 1959 to June 4, 1960*

1959

August 31 &  
September 1

Re-examinations for advancement

## FIRST SEMESTER—September 10, 1959 to January 23, 1960

September	8; 9		Orientation for Freshmen
September	8	Tuesday	*Registration, payment of fees, juniors and seniors
September	9	Wednesday	*Registration, payment of fees, freshmen and sophomores
September	10	Thursday	Instruction begins at 8:00 a.m.
November	24	Tuesday	Instruction suspended at 5:00 p.m. THANKSGIVING HOLIDAY
November	30	Monday	Instruction resumed at 8:00 a.m.
December	22	Tuesday	Instruction suspended at 5:00 p.m. CHRISTMAS HOLIDAY

1960

January	4	Monday	Instruction resumed at 8:00 a.m.
January	18, 19	Mon., Tues.	Payment of fees for second semester
January	23	Saturday	First semester completed at 1:00 p.m.

## SECOND SEMESTER—January 25 to June 4, 1960

January	25	Monday	Second semester begins at 8:00 a.m.
February	22	Monday	Holiday—Washington's Birthday
April	13	Wednesday	Freshman and sophomore classes suspended at 5:00 p.m. EASTER HOLIDAY
April	14	Thursday	Junior and senior classes suspended at 5:00 p.m. EASTER HOLIDAY
April	19	Tuesday	Junior and senior instruction resumed at 8:00 a.m.
April	20	Wednesday	Freshman and sophomore instruction resumed at 8:00 a.m.
April	19, 20	Tues., Wed.	Part II National Board Examinations—Seniors
May	21	Saturday	Freshman and sophomore classes cease at 1:00 p.m.
May	23	Monday	Freshman and sophomore examinations begin
May	28	Saturday	Senior classes cease at 1:00 p.m.
May	30	Monday	Holiday—Memorial Day
June	2	Thursday	Junior classes cease at 5:00 p.m.
June	3	Friday	Pre-Commencement Ceremonies
June	4	Saturday	Commencement
June	21, 22	**Tues., Wed.	Part I National Board Examinations—Sophomores

\*All students are expected to complete their registration, including the payment of bills on regular registration days. Those who do not complete their registration on the prescribed days will be charged a fee of \$5.00.

The offices of the registrar and comptroller are open Monday through Friday from 8:30 a.m. to 4:45 p.m.

\*\*Tentative dates for Part I National Board Examinations.

# BOARD OF REGENTS

## and

### MARYLAND STATE BOARD OF AGRICULTURE

	<i>Term Expires</i>
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<i>Chairman</i> .....	1966
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<i>Vice-Chairman</i> .....	1968
The National Grange, 744 Jackson Place, N.W., Washington 6	
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<i>Secretary</i> .....	1960
The Baltimore Institute, 10 West Chase Street, Baltimore 1	
HARRY H. NUTTLE	
<i>Treasurer</i> .....	1966
Denton	
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5800 Park Heights Avenue, Baltimore 15	
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<i>Assistant Treasurer</i> .....	1960
10 Light Street, Baltimore 2	
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The Pangborn Corporation, Pangborn Blvd., Hagerstown	
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Suburban Trust Company, 6950 Carroll Avenue, Takoma Park	
C. EWING TUTTLE .....	1962
907 Latrobe Building, Charles and Read Streets, Baltimore 2	
WILLIAM C. WALSH .....	1968
Liberty Trust Building, Cumberland	
MRS. JOHN L. WHITEHURST .....	1967
4101 Greenway, Baltimore 18	

---

Members of the Board are appointed by the Governor of the State for terms of nine years each, beginning the first Monday in June.

The President of the University of Maryland is, by law, Executive Officer of the Board.

The State law provides that the Board of Regents of the University of Maryland shall constitute the Maryland State Board of Agriculture.



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*Director of Admissions and Registrations*

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1959-1960

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### *Emeriti*

H. BOYD WYLIE, M.D. *Professor of Biochemistry and Dean, Emeritus*

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HARLAN I. FIRMINGER	THEODORE E. WOODWARD	EDWARD B. TRUITT
LADISLAUS GRAPSKI	GEORGE H. YEAGER	JOHN I. WHITE
ROBERT G. GRENELL	JOHN D. YOUNG, JR.	GIBSON J. WELLS
PAUL R. HACKETT		DAVID R. WILL
ARTHUR L. HASKINS	<i>Alternates:</i>	HENRY B. WILSON
MARTIN HELRICH	CHARLES BAGLEY, III	

-----  
 \*Deceased

## School of Medicine

### Executive Committee of the Faculty

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ROBERT W. BUXTON	LADISLAUS F. GRAPSKI	MILTON S. SACKS
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EVERETT S. DIGGS	MARTIN HELRICH	CHARLES L. WISSEMAN, JR.
GEORGE D. ENTWISLE	EDWARD J. HERBST	THEODORE E. WOODWARD
FREDERICK P. FERGUSON	JOHN C. KRANTZ, JR.	
FRANK H. J. FIGGE	HARRY P. MACK	

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ROBERT W. BUXTON	VERNON E. KRAHL	CHARLES VAN BUSKIRK
FREDERICK P. FERGUSON	JOHN C. KRANTZ, JR.	JOHN A. WAGNER

WILLIAM S. STONE, *Dean, Ex-Officio*

### Department of Anatomy

FRANK H. J. FIGGE, *Professor of Anatomy and Head of the Department*  
A.B., Colorado College, 1927; PH.D., University of Maryland, 1934.

HARRY C. BOWIE, *Associate in Clinical Anatomy*  
B.S., University of Maryland, 1933; M.D., 1936.

OTTO C. BRANTIGAN, *Professor of Clinical Anatomy*  
B.S., Northwestern University, 1931; M.D., 1934.

ROGER H. DAVIDHEISER, *Assistant in Anatomy*  
B.S., University of Pittsburgh, 1948; M.S., University of New Hampshire, 1951.

-----  
\*Deceased

- DORIS L. GARDNER, *Assistant in Anatomy*  
B.S., Bucknell University, 1952.
- VERNON E. KRAHL, *Associate Professor of Anatomy*  
B.S., University of Pittsburgh, 1939; M.S., 1940; PH.D., University of Maryland, 1946.
- HENRICUS G. J. M. KUYPERS, *Associate Professor of Anatomy*  
PH.D., University of Leiden, 1952; M.D., 1954.
- HENRY E. LANGENFELDER, *Assistant in Anatomy*  
B.A., Johns Hopkins University, 1947; M.D., Hahnemann Medical College, 1951.
- THEODORE F. LEVEQUE, *Associate Professor of Anatomy*  
B.A., University of Denver, 1949; M.S., 1950; PH.D., University of Colorado, 1954.
- HARRY PATTERSON MACK, *Associate Professor of Anatomy*  
M.D., University of Maryland, 1948.
- ROBERT EUGENE MCCAFFERTY, *Instructor in Anatomy*  
B.S., Grove City College, 1943; M.S., University of Pittsburgh, 1948; PH.D., 1951.
- KARL FREDERICK MECH, *Assistant Professor of Anatomy*  
B.S., University of Maryland, 1932; M.D., 1935.
- WILLIAM R. MEHLER, *Assistant in Anatomy*  
B.S., John Carroll University, 1949; M.S., St. Louis University, 1951; PH.D., University of Maryland, 1959.
- ENRIQUE RAMON-MOLINER, *Research Assistant Professor of Anatomy*  
M.D., Facultad De Medicina, Madrid, Spain, 1956.
- WALLE J. H. NAUTA, *Professor of Anatomy*  
M.D., University of Utrecht, 1942; PH.D., 1945.
- ROSS Z. PIERPONT, *Associate in Clinical Anatomy*  
B.S., University of Maryland, 1939; M.D., 1940.
- HERBERT E. REIFSCHNEIDER, *Associate in Clinical Anatomy*  
A.B., Johns Hopkins University, 1922; M.D., University of Maryland, 1927.
- ELWYN A. SAUNDERS, *Instructor in Anatomy*  
B.S., The Citadel, 1949; M.S., Graduate School of Medical College of South Carolina, 1952; M.D., Medical College of South Carolina, 1955.
- WILLIAM BOOTH SETTLE, *Assistant Professor of Clinical Anatomy*  
A.B., University of Pennsylvania, 1930; M.D., 1933.
- EDUARD UHLENHUTH, *Research Professor of Anatomy*  
PH.D., University of Vienna, 1909.



## *School of Medicine*

WILLIAM WALLACE WALKER, *Associate Professor of Clinical Anatomy*  
B.S., West Virginia University, 1921; M.D., University of Maryland, 1923.

## *Department of Anesthesiology*

MARTIN HELRICH, *Professor of Anesthesiology and Head of the Department*  
B.S., Dickinson College, 1946; M.D., University of Pennsylvania, 1946.

ROBERT R. BOYD, *Instructor in Anesthesiology*  
M.B., Glasgow University, 1954; CH.B., 1954.

THOMAS J. DEKORNFELD, *Instructor in Anesthesiology*  
B.S., George Washington University, 1948; M.S., 1949; M.D., Harvard Medical School, 1953.

THOMAS D. GRAFF, *Clinical Instructor of Anesthesiology*  
A.B., Haverford College, 1949; M.D., Temple University, 1953.

PAUL R. HACKETT, *Associate Professor of Anesthesiology*  
B.A., Denison University, 1945; M.D., Western Reserve University, 1949.

NORMAN B. HOLLINGSWORTH, *Assistant Professor of Anesthesiology*  
B.S., New York University, 1948; M.D., New York Medical College, 1952.

WALTER LEVY, *Instructor in Anesthesiology*  
M.D., University of Maryland, 1929.

WILLIAM B. LYONS, *Instructor in Anesthesiology*  
A.B., Holy Cross, 1942; M.D., Georgetown University, 1945.

JOHN R. MARSHALL, *Instructor in Anesthesiology*  
A.B., University of Kansas, 1945; M.D., 1949.

ALFRED T. NELSON, *Clinical Professor of Anesthesiology*  
M.D., University of Maryland, 1943.

NARCISO C. PATALINGHUG, *Instructor in Anesthesiology*  
M.D., Santo Tomas University, 1952.

ALBERT PATS, *Instructor in Anesthesiology*  
B.S., University of Maryland, 1950; M.D., 1954.

OTTO C. PHILLIPS, *Clinical Associate Professor of Anesthesiology*  
A.B., Johns Hopkins University, 1938; M.D., University of Maryland, 1942.

JOSEPH REDDING, *Instructor in Anesthesiology*  
A.B., University of North Carolina, 1943; M.D., University of Maryland, 1948.

PETER SAFAR, *Clinical Associate Professor of Anesthesiology*  
M.D., University of Vienna, 1948.

CALBERT T. SEEBERT, *Instructor in Anesthesiology*  
M.D., Jefferson Medical College, 1951.

THEODORE E. STACY, JR., *Clinical Instructor in Anesthesiology*  
P.H.G., University of Maryland, 1923; M.D., 1928.

## Department of Biological Chemistry

EDWARD JOHN HERBST, *Associate Professor of Biological Chemistry and Acting Head of the Department*  
B.S., University of Wisconsin, 1943; M.S., 1944; PH.D., 1949.

SAMUEL P. BESSMAN, *Associate Professor of Biological Chemistry*  
M.D., Washington University, 1944.

ANN VIRGINIA BROWN, *Instructor in Biological Chemistry*  
A.B., Goucher College, 1940.

FLO MOHR COUNCILL, *Instructor in Biological Chemistry*  
A.B., Goucher College, 1951.

ARTHUR J. EMERY, JR., *Assistant Professor of Biological Chemistry*  
B.S., Bucknell University, 1946; PH.D., University of Rochester, 1954.

ENNIS C. LAYNE, *Lecturer in Biological Chemistry*  
B.S., George Washington University, 1950; M.S., 1953; PH.D., 1955.

GUILFORD G. RUDOLPH, *Associate Professor of Biological Chemistry*  
B.A., University of Colorado, 1940; M.S., Wayne State University, 1942; PH.D., University of Utah, 1948.

WILLIAM HENRY SUMMERSON, *Lecturer in Biological Chemistry*  
B.CHEM., Cornell University, 1927; M.A., 1928; PH.D., 1937.

## Department of Medicine

THEODORE E. WOODWARD, *Professor of Medicine and Head of the Department*  
B.S., Franklin and Marshall College, 1934; M.D., University of Maryland, 1938;  
D.SC., (HON.), Western Maryland College, 1950; D.SC. (HON.), Franklin and  
Marshall College, 1954.

CONRAD B. ACTON, *Associate in Medicine*  
B.S., Haverford College, 1925; M.D., Johns Hopkins University, 1929.

## *School of Medicine*

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- VINCENT DE PAUL FITZPATRICK, JR., *Assistant in Obstetrics and Gynecology*  
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## School of Medicine

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DONALD BROWN, B.S., M.A., *Research Assistant in Psychiatry*  
PATRICIA A. BRYAN, *Research Assistant in Anatomy*  
FLORENCE M. BURNETT, B.S., M.S., *Research Assistant in Psychiatry*  
THOMAS A. BURNS, *Research Assistant in Anatomy*  
ELSA A. BURROWS, A.B., *Research Assistant in Anatomy*  
MARY JANE CALLAHAN, *Research Assistant in Anatomy*  
LYDIA CZUMAK, B.S., *Research Assistant in Psychiatry*  
ANDREAS D. DEMETRIADES, M.D., *Research Assistant in Thoracic Surgery*  
ANGELA L. DILLOW, *Research Assistant in Legal Medicine*  
CONRAD P. DORN, JR., B.S., *Research Assistant in Pediatrics*  
THERESA M. DRIESEN, *Research Assistant in Obstetrics and Gynecology*  
ETHEL M. EBERSBERGER, A.B., *Research Assistant in Pharmacology*

## *School of Medicine*

BARBARA E. FIGGE, *Research Assistant in Anatomy*  
IRENE M. FITZ, B.S., *Research Assistant in Anatomy*  
CHARLES B. FLETCHER, *Research Assistant in Microbiology*  
PETER C. FUCHS, B.S., *Research Assistant in Anatomy*  
JOSEPH GREENBLUM, B.S.S., M.S., *Research Assistant in Psychiatry*  
MARILEE E. HODSDON, A.B., *Research Assistant in Pediatrics*  
MARY M. HOLLENSHADE, *Research Assistant in Anatomy*  
KATHRYN R. HOYT, A.B., M.S., *Research Assistant in Otolaryngology*  
NANCY J. HUNT, B.A., *Research Assistant in Psychiatry*  
JANELLEN HUTTENLOCHER, B.A., M.A., *Research Assistant in Psychiatry*  
SHEILA M. KEEN, *Research Assistant in Medicine*  
VIRGINIA F. KOZLER, *Research Assistant in Pharmacology*  
ILSE H. LIBAUER, *Research Assistant in Anatomy*  
ALFRED S. C. LING, A.B., M.S., *Research Assistant in Pharmacology*  
JOHN B. MAHOOL, JR., A.B., *Research Assistant in Surgery*  
VICTORIA A. MARSEE, *Research Assistant in Psychiatry*  
CHARLES H. MC BETH, B.S., M.S., *Research Assistant in Legal Medicine*  
KEVIN F. MCCAUL, M.B.BCL.D.C.H., *Research Assistant in Medicine*  
DOROTHY W. MC CONNELL, B.S., M.S., *Research Assistant in Physiology*  
NORBERT J. MC NAMARA, *Research Assistant in Psychiatry*  
ANN M. MEREDITH, B.S., M.S., *Research Assistant in Medicine*  
ANN M. MORGAN, B.S., *Research Assistant in Pharmacology*  
LUIGI PALUMBO, *Research Assistant in Surgery*  
CURTIS B. PFEIFFER, *Research Assistant in Anatomy*  
MATTHEW R. PURVIS, JR., B.S., M.S., *Research Assistant in Biological Chemistry*  
EVELYN C. RICE, A.B., *Research Assistant in Obstetrics and Gynecology*  
WILLIAM T. RUCKLE, *Research Assistant in Pharmacology*  
DANIEL S. SAX, A.B., *Research Assistant in Psychiatry*  
CAROLINE M. SHOEMAKER, *Research Assistant in Anatomy*  
KEIYA TADA, M.D., *Research Assistant in Pediatrics*  
TOBA TAHL, B.A., M.S.S., *Research Assistant in Psychiatry*  
EPP TAMMARU, A.B., *Research Assistant in Psychiatry*  
MASATERU TOYODA, M.D., *Research Assistant in Pediatrics*  
LEE H. ULYAT, A.B., *Research Assistant in Biological Chemistry*  
BRANTLEY F. VITEK, A.B., *Research Assistant in Psychiatry*  
MR. HENRY F. WILSON, JR., B.S., *Research Assistant in Pharmacology*  
BARBARA H. WITHERSPOON, B.S., *Research Assistant in Biological Chemistry*  
MYRON L. WOLBARSCHT, A.B., *Research Assistant in Psychiatry*  
ARTHUR WOLPERT, *Research Assistant in Pharmacology*  
ELFRIEDE H. WOODS, *Research Assistant in Anatomy*  
TOBY M. YOSPA, *Research Assistant in Biological Chemistry*  
JOAN P. YOUNG, B.A., *Research Assistant in Psychiatry*

## *Fellows*

NICHOLAS R. BACHUR, B.S., *Fellow in Biochemistry*  
EUGENE BLANK, M.D., *Fellow in Pediatrics*

FRED S. BROWN, B.S., *Summer Fellow in Pediatrics*  
 JOHN F. CADDEN, *Summer Fellow in Pediatrics*  
 RONALD L. CAIN, *Summer Fellow in Obstetrics and Gynecology*  
 N. D. CHARKES, M.D., *Fellow in Medicine*  
 JEAN M. COYLE, B.S., M.D., *Fellow in Psychiatry*  
 LOUIS M. DAMIANO, A.B., *Summer Fellow in Microbiology*  
 T. DAVIS, M.D., *Fellow in Medicine*  
 BHUPENDRA P. DOCTOR, B.S., M.S., *Fellow in Biochemistry*  
 JAMES E. DUNN, A.B., *Summer Fellow in Pathology*  
 JAMES P. DURKAN, A.B., *Summer Fellow in Obstetrics and Gynecology*  
 STRATY H. ECONOMON, B.S., *Fellow in Biochemistry*  
 MYRON F. EICHLER, B.S., M.S., *Fellow in Psychiatry*  
 IRENE B. FABRIKANT, *Fellow in Microbiology*  
 WILLIAM F. FALLS, JR., B.S., *Student Fellow in Medicine*  
 BERNADINE C. FAW, A.B., *Summer Fellow in Psychiatry*  
 ROBERT A. FINK, *Summer Fellow in Medicine*  
 JOSEPH C. FITZGERALD, M.D., *Advanced Research Fellow in Cardiology*  
 MALCOLM L. FRIEDMAN, *Summer Research Fellow in Surgery*  
 PETER C. FUCHS, B.S., *Summer Fellow in Obstetrics and Gynecology*  
 KARL M. GREEN, B.S., *Summer Fellow in Surgery*  
 WILLIAM GROSSMAN, B.S., *Summer Fellow in Pathology*  
 JOHN M. HAMILTON, B.A., M.D., *Fellow in Psychiatry*  
 GEORGE H. HENNING, *Summer Fellow in Surgery*  
 GERALD F. HOFKIN, A.B., *Summer Fellow in Obstetrics and Gynecology*  
 WILLIAM B. HOLDEN, B.S., M.D., *Fellow in Psychiatry*  
 ROGER B. INGHAM, A.B., *Summer Fellow in Medicine*  
 ROBERT C. IRWIN, A.B., *Summer Fellow in Medicine*  
 HERBERT H. JAMES, JR., B.S., M.S., *Summer Fellow in Microbiology*  
 REUBEN M. JIJI, M.D., *Fellow in Medicine*  
 ELAINE C. JONES, A.B., M.D., *Fellow in Psychiatry*  
 JORGE O. JUST-VIERA, B.S., *Summer Fellow in Medicine*  
 SYDNEY S. KATZ, A.B., M.D., *Research Fellow in Legal Medicine*  
 DONALD L. KEISTER, B.S., *Fellow in Biological Chemistry*  
 WATSON P. KIME, B.S., M.B.B.CH., *Junior Research Fellow in Forensic Pathology*  
 JAMES C. KING, B.S., *Summer Fellow in Anatomy*  
 MARTIN S. KLEINMAN, *Summer Fellow in Surgery*  
 M. D. KRAMER, M.D., *Fellow in Medicine*  
 RONALD KROME, B.S., *Summer Fellow in Psychiatry*  
 WARD KURAD, *Summer Fellow in Thoracic Surgery*  
 PREM P. LAKRA, M.D., *Fellow in Medicine*  
 RICHARD C. LAVY, B.S., *Summer Fellow in Medicine*  
 YU-CHEN LEE, M.D., *Fellow in Medicine*  
 DONALD R. LEWIS, *Summer Fellow in Pathology*  
 HARRIS R. LOVICE, M.D., *Fellow in Medicine*  
 CHARLES J. MAILMAN, B. A., *Summer Fellow in Medicine*  
 FERDINAND G. MAINOLFI, B.S., *Summer Fellow in Microbiology*

## *School of Medicine*

PETER F. MASTAN, *Student Fellow in Surgery*  
THOMAS J. MC GEOY, *Student Research Fellow in Pediatrics*  
JOHN J. MESSINA, A.B., *Summer Fellow in Cardiology*  
WILLIAM K. MORGAN, M.D., *Fellow in Medicine*  
ROBERT J. MYERBURG, *Summer Fellow in Obstetrics and Gynecology*  
JOSEPH F. NATARO, *Summer Fellow in Medicine*  
KARIN B. NELSON, M.D., *Fellow in Neurology*  
JEAN M. C. O'CONNOR, B.S., M.D., *Senior Fellow in Psychiatry*  
MICHAEL B. A. OLDSTONE, B.S., *Fellow in Microbiology*  
E. OTOMO, M.D., *Fellow in Medicine*  
SELVIN PASSEN, *Summer Fellow in Pathology*  
ADDISON W. POPE, B.S., M.D., U.S.P.H.S. *Fellow in Psychiatry*  
RICHARD W. PROUTY, *Graduate Fellow in Toxicology*  
MATTHEW R. PURVIS, B.S., M.S., *Fellow in Biochemistry*  
JACK RAHER, B.A., M.S., M.D., *Fellow in Psychiatry*  
JOSE RAMIREZ-RIVERA, M.D., *Fellow in Medicine*  
JOAN RASKIN, M.D., *Fellow in Medicine*  
PAUL A. REEDER, B.S., *Summer Fellow in Obstetrics and Gynecology*  
MELVIN D. REUBIN, M.D., *Fellow in Pathology*  
HERBERT RIBNER, A.B., *Student Fellow in Pathology*  
PETER W. RIECKERT, M.D., *Research Fellow in Legal Medicine*  
JOSEPH H. ROE, JR., A.B., M.A., M.D., *Fellow in Legal Medicine*  
RAMON F. ROIG, A.B., *Summer Fellow in Surgery*  
JEROME ROSS, *Summer Fellow in Medicine*  
HILDEGARD ROTHMUND, M.D., *Fellow in Pediatrics*  
HOWARD J. RUBENSTEIN, A.B., *Summer Fellow in Medicine*  
EDWARD RUSCHE, M.D., *Fellow in Medicine*  
LEE RUSSO, A.B., *Summer Fellow in Medicine*  
CAROL E. RYBCZYNSKI, A.B., *Student Fellow in Surgery*  
JERRY SALAN, A.B., *Summer Fellow in Obstetrics and Gynecology*  
ELIJAH SAUNDERS, B.S., *Summer Fellow in Medicine*  
STANLEY S. SHOCKET, *Summer Fellow in Medicine*  
JONAS A. SHULMAN, *Summer Fellow in Psychiatry*  
BERNICE SIGMAN, *Summer Fellow in Psychiatry*  
MARVIN M. SMALL, *Summer Fellow in Anatomy*  
MICHAEL S. TENNER, A.B., *Summer Fellow in Obstetrics and Gynecology*  
YASASHI TOGO, M.D., *Fellow in Medicine*  
GUSTAV C. VOIGT, *Summer Fellow in Pathology*  
CHARLES B. VOLCJAK, *Summer Fellow in Electroencephalography*  
KATHERINE S. WALDMANN, M.D., *Fellow in Psychiatry*  
ALBERT S. WINER, M.D., U.S.P.H.S. *Fellow in Psychiatry*  
WILLIAM H. WOOD, A.B., *Fellow in Microbiology*  
WILLIAM E. WOODWARD, *Summer Fellow in Medicine*  
ROBERT H. YOUNG, JR., A.B., *Summer Fellow in Surgery*  
THEODORE ZANKER, A.B., *Summer Fellow in Pathology*

*Consultants*

JOHN M. ARTHUR, A.B., M.D., *Consultant in Psychiatry*

BERNARD GLUECK, M.D., *Consultant in Psychiatry*

MARGARET J. RIOCH, B.A., PH.D., M.A., *Consultant in Psychiatry*

FRIEDA G. RUDO, B.A., *Consultant in Biochemistry in Surgery*

MARGARET B. THALER, B.A., M.A., PH.D., *Consultant in Psychiatry*

ISADORE TUERK, B.S., M.D., *Consultant in Psychiatry*





# THE SCHOOL OF MEDICINE

## General Information

### HISTORY

THE PRESENT SCHOOL OF MEDICINE, WITH THE TITLE UNIVERSITY OF MARYLAND School of Medicine and College of Physicians and Surgeons, is the result of a consolidation and merger of the University of Maryland School of Medicine with the Baltimore Medical College (1913) and the College of Physicians and Surgeons of Baltimore (1915).

Through the merger with the Baltimore Medical College, an institution of thirty-two years' growth, the facilities of the School of Medicine were enlarged in faculty, equipment and hospital connection.

The College of Physicians and Surgeons was incorporated in 1872, and established on Hanover Street in a building afterward known as the *Maternite*, the first obstetrical hospital in Maryland. In 1878 union was effected with the Washington University School of Medicine, in existence since 1827, and the college was removed to Calvert and Saratoga Streets. Through the consolidation with the College of Physicians and Surgeons, medical control of the teaching beds in the Mercy Hospital was obtained.

The School of Medicine of the University of Maryland is one of the oldest foundations for medical education in America, ranking fifth in point of age among the medical colleges of the United States. It was organized in 1807 and chartered in 1808 under the name of the College of Medicine of Maryland, and its first class was graduated in 1810. In 1812 the College was empowered by the Legislation to annex three other colleges or faculties: Divinity, Law, and Arts and Sciences; and the four colleges thus united were "constituted an University by the name and under the title of the University of Maryland."

The original building of the Medical School at the northeast corner of Lombard and Greene Streets was erected in 1812. It is the oldest structure in this country from which the degree of Doctor of Medicine has been granted annually since its erection. In this building were founded one of the first medical libraries and one of the first medical school libraries in the United States.

At this Medical School dissection was made a compulsory part of the curriculum, and independent chairs for the teaching of gynecology and pediatrics (1867), and of ophthalmology and otology (1873), were installed for the first time in America.

This School of Medicine was one of the first to provide for adequate clinical instruction by the erection of its own hospital in 1823. In this hospital intramural residency for senior students was established for the first time.

The School of Medicine has been co-educational since 1918.

## *General Information*

### BUILDINGS AND FACILITIES

Davidge Hall, the original medical building at the northeast corner of Lombard and Greene Streets, houses the offices of the Dean, Associate Deans, the Committee on Admissions, and the Postgraduate Committee and two lecture halls.

The Administration Building, to the east of the original buildings, contains the Baltimore offices of the Registrar and two lecture halls.

The laboratory building at 31 South Greene Street is occupied by the Departments of Pathology, Microbiology and Biochemistry.

The Frank C. Bressler Research Laboratory provides the Departments of Anatomy, Pharmacology, Physiology and Clinical Pathology with facilities for teaching and research. It also houses the research laboratories of the clinical departments, animal quarters, a laboratory for teaching Operative Surgery, a lecture hall and the Bressler Memorial Room.

This building was erected in 1939-1940 at 29 South Greene Street opposite the University Hospital. It was built with funds left to the School of Medicine by the late Frank C. Bressler, an alumnus, supplemented by a grant from the Federal government. The structure, in the shape of an I, extends east from Greene Street, just north of the original building.

### MEDICAL LIBRARY

The Medical Library of the University of Maryland, founded in 1813 by the purchase of the collection of Dr. John Crawford, now numbers over 40,000 volumes and several thousand pamphlets. Over nine hundred of the leading medical journals, both foreign and domestic, are received regularly. The library is now in temporary quarters at 6 South Greene Street while a new medical sciences library building is being constructed at the corner of Lombard and Greene Streets. Although much of the less used material is, of necessity, in storage, library services are being adequately maintained under the interim arrangement.

The library of the Medical and Chirurgical Faculty of Maryland and the Welch Medical Library are open to students of the Medical School without charge. Other libraries of Baltimore are the Peabody Library and the Enoch Pratt Free Library.

### OUT PATIENT DEPARTMENT

The Out Patient Department is located on the southwest corner of Lombard and Greene Streets. The building was originally the University Hospital. It has been remodeled to provide space and facilities for more than thirty clinics, the departments of X-ray, a pharmacy, laboratory and other ancillary services. Admission policies are predicated upon the teaching requirements of the School of Medicine and the ward services of the University Hospital.

A close liaison is maintained with the City Health Department through the joint efforts of the University Hospital and the City Department of Health in maintaining the Well Baby Clinic, the Western Health District and the Medical Care Clinic, which are housed in the Out Patient Department building.

The Department of Art and the Department of Dental Anatomy also have quarters in the Out Patient Department building.

#### UNIVERSITY HOSPITAL

The University Hospital, a Department of the University of Maryland, is the oldest institution for the care of the sick in the State of Maryland. It was opened in September, 1823, under the name of the Baltimore Infirmary and at that time consisted of only four wards, one of which was reserved for patients with diseases of the eye.

In 1933-1934 the New University Hospital Building was erected. It had a capacity of 435 beds and 65 bassinets. In 1952-1953 an ultra-modern Psychiatric Institute Building was erected and a junctional wing was added to the general hospital. The new additions increased the hospital bed capacity to 659 beds and 70 bassinets devoted to general medicine, surgery, obstetrics, pediatrics, psychiatry and the various medical and surgical specialties. Three hundred and forty-two are for ward patients.

The new hospital buildings are situated at the southwest corner of Redwood and Greene Streets opposite the Medical School buildings. The students, therefore, are in close proximity to the clinical facilities of the University Hospital. The hospital as planned, makes a particularly attractive teaching unit and is a very valuable addition to the clinical teaching facilities of the Medical School.

Most of the ancillary services are located on the second floor of the Hospital. The north wing is occupied by the Department of Roentgenology. The east wing houses clinical pathology and special laboratories for clinical microscopy, biochemistry, bacteriology, and hematology. The south wing provides space for electrocardiographic and diagnostic radioisotope areas. The west wing contains areas for rhinolaryngology and bronchoscopy, industrial surgery, and male and female cystoscopy.

The Emergency Service of the hospital receives and treats a large number of emergency cases because of its proximity to the largest manufacturing and shipping districts of the city. During the past fiscal year a total of 38,468 patients were treated in the Emergency Room.

The Out Patient Department of the University Hospital is a well organized teaching area. 131,478 visits to the various clinics of the Out Patient Department were made during the last fiscal year.

## *General Information*

### THE PSYCHIATRIC INSTITUTE

The Psychiatric Institute of the University was opened for the care of patients in 1953. It is a six-story building connected directly with the University Hospital, of which it is an integral part. It houses the Department of Psychiatry of the Medical School. The upper floors of the building are reserved for the treatment and care of 100 in-patients. The out-patient unit, which includes the child guidance clinic and adult psychiatric clinics, occupies the three lower floors. Clinical and research laboratories are located in the first and second floors of the connecting wing. There is a lecture hall and a large study library on the first floor.

Each of the upper floors is arranged into two wards with dining rooms next to a central kitchen for each ward. A nurses' station is in the center of each floor allowing ready visibility and access to the rooms along the corridors. The third and fourth floors are used for disturbed patients.

Facilities are available to treat patients in every phase of psychiatric illness and rehabilitation. Rooms are available for the care of patients in the acutely disturbed phase of their illness. There are small units for various types of physical treatments and for hydrotherapy situated on and adjacent to the disturbed wards.

Recreational facilities are available for adults and children in a large auditorium and gymnasium on the seventh floor which lead to an enclosed roof. A large playground is available to in-patients and out-patients alike.

The lower three floors of the building are used for the child guidance clinic and for out-patients. There are 63 offices available to physicians, nurses, psychologists and social workers; also available are five large waiting rooms and three conference rooms. Eleven offices are adjacent to the wards and fourteen offices can be used for both in-patients and clinic patients. Sixteen offices have microphone outlets so physicians can make recordings for study. A library of recordings is near the main library where students can listen to recorded interviews.

Space is provided for clinical and research laboratories. EEG connections are available to several laboratories. Three clinical laboratories, a psychological laboratory and a neuro-physiological laboratory are in the connecting wing between the psychiatric unit and the general hospital. These are available for purposes of diagnosis, treatment and research.

### MERCY HOSPITAL

Mercy Hospital traces its history back to the foundation of the Washington School of Medicine in 1824. In 1872 some of the members of this institution founded a new school, which was the beginning of the College of Physicians and Surgeons of Baltimore.



Washington School of Medicine opened a dispensary and a small hospital at the corner of Saratoga and Calvert Streets and named it the Baltimore City Hospital. This building served both as a hospital and a medical school. In 1874 the Sisters of Mercy, upon the invitation of Washington School of Medicine, assumed responsibility for the Nursing Services of the hospital. In 1876, Washington University merged with the College of Physicians and Surgeons.

In 1888 the Sisters of Mercy with the assistance of the Faculty of the College of Physicians and Surgeons laid the cornerstone of the present hospital. Since then the growing demands for more space have compelled the erection of addition after addition until now it accommodates 356 patients.

In 1909 the name of the Baltimore City Hospital was changed to Mercy Hospital.

The clinical material in the free wards is under the exclusive control of the University of Maryland School of Medicine and College of Physicians and Surgeons. One hundred ninety-three beds are allotted for teaching purposes.

During the year ending December 31, 1958, there were 14,101 general admissions, 28,932 dispensary visits, 2,713 obstetrical deliveries, and 18,445 emergency visits in the Accident Department.

Mercy Hospital founded its School of Medical Technology in 1928. It was officially approved in 1933 making it the first approved School of Medical Technology in the city. It is also approved by the Council of Medical Education and Hospitals of the American Society of Clinical Pathologists.

The clinical facilities of the School of Medicine have been largely increased by the liberal decision of the Department of Public Welfare to allow the use of the wards of these hospitals for medical education. The autopsy material also is available for student instruction.

Members of the junior class make daily visits to these hospitals for clinical instruction in medicine, surgery, and the specialties.

The Baltimore City Hospitals consist of the following separate divisions:

The General Hospital, 420 beds, 80 bassinets.

The Hospital for Chronic Cases, 500 beds.

The Hospital for Tuberculosis, 440 beds.

Infirmery (Home for Aged) 425 beds.

Out Patient Department

#### THE JAMES LAWRENCE KERNAN HOSPITAL AND

#### INDUSTRIAL SCHOOL OF MARYLAND FOR CRIPPLED CHILDREN

This institution is situated on an estate of 75 acres at Dickeyville. The site is within the northwestern city limits and of easy access to the city proper.

## *General Information, Admission Requirements*

The location is ideal for the treatment of children, in that it affords all the advantages of sunshine and country air.

A hospital unit, complete in every respect, offers all modern facilities for the care of an orthopaedic condition in children.

The hospital is equipped with 80 beds—endowed, and city and state supported.

The orthopaedic dispensary at the University Hospital is maintained in closest affiliation and cares for the cases discharged from the Kernan Hospital. The Physical Therapy Department is very well equipped with modern apparatus and trained personnel. Occupational therapy has been fully established and developed under trained technicians.

### THE BALTIMORE EYE, EAR, AND THROAT HOSPITAL

This institution was first organized and operated in 1882 as an outgrowth of the Baltimore Eye and Ear Dispensary, which closed on June 14, 1882. The name then given to the new hospital was The Baltimore Eye and Ear Charity Hospital. It was located at the address now known as 625 W. Franklin St. The out-patient department was opened on September 18, 1882 and the hospital proper on November 1 of the same year. In 1898 a new building afforded 24 free beds and 8 private rooms; by 1907 the beds numbered 47; at present there are 60 beds, 29 of which are free. In 1922 the present hospital building at 1214 Eutaw Place was secured and in 1926 the dispensary was opened. In 1928 a clinical laboratory was installed. During 1958 the out-patient visits numbered 23,000.

Through the kindness of the hospital board and staff, our junior students have access to the dispensary which they visit in small groups for instruction in ophthalmology.

## Requirements For Admission

### METHOD OF MAKING APPLICATION FOR ADMISSION

Applications must be filed between July 1 and January 15 for the subsequent September class. Request for application forms should be sent to the Committee on Admissions, School of Medicine, 522 W. Lombard Street, Baltimore 1, Maryland.

### APPLICATION FOR ADMISSION TO ADVANCED STANDING

Students who have attended approved medical schools are eligible to file applications for admission to the second and third year classes only. These applicants must be prepared to meet the current first-year entrance requirements in addition to presenting acceptable medical school credentials, and a

medical school record based on courses which are equivalent to similar courses in this School.

Application to advanced standing is made in accordance with the instructions accompanying the application form.

Persons who already hold the degree of Doctor of Medicine will not be admitted to the Medical School as a candidate for that degree from this University.

No applicants from foreign medical schools will be considered for advanced standing.

#### MINIMUM REQUIREMENTS FOR ADMISSION

1. A minimum of 90 semester hours (three academic years) of acceptable college credit, exclusive of physical education and military science, earned in colleges of arts and sciences whose names occur on the current list of "Approved Colleges of Arts and Sciences" as compiled by the Council on Medical Education and Hospitals of the American Medical Association. Applicants who will have earned a bachelor's degree in arts and sciences before registration for medical school from an approved college or university will be given preference over applicants who have not completed the requirements for the bachelor's degree. Only those courses will be acceptable which are approved by the university or college attended as well as the University of Maryland, for credit towards an A.B. or B.S. degree.
2. In addition the following courses and credits in required basic subjects must be completed before registering for Medical School.

	Semester Hours	Quarter Hours
General biology or zoology .....	*(6) 8	*(9) 12
Inorganic chemistry .....	*(6) 8	*(9) 12
Organic chemistry .....	6	9
Quantitative or physical chemistry ..	3	5
General physics .....	*(6) 8	*(9) 12
English .....	12	9
Foreign language .....	6	9

3. Medical College Admission Tests must be taken not later than October of the year prior to entrance. Applicants should write to Educational Testing Service, 20 Nassau St., Princeton, N.J. for further information regarding fees and registration.

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\* Consideration will be given applicants from the New England area where 6 semester hours, or 9 quarter hours, is the standard credit for a science course.

## *Admission Requirements*

### ELECTIVE COURSES

Careful attention should be given to the selection of elective courses particularly in the natural sciences. Except under unusual circumstances the student should plan a four year curriculum with a suitable Arts and Science major, leading to a bachelor's degree. A major in an area other than science is quite acceptable although it is not intended to divert students from a science major if this is their field of choice. The student taking science courses beyond the minimal requirements is encouraged to take such subjects as embryology, comparative anatomy, psychology, anthropology, physical chemistry or cellular physiology. Courses duplicating medical school work, such as histology, neurology, biochemistry, mammalian physiology, human anatomy, bacteriology are not recommended unless they are required in the student's major sequence. Having credit in such courses will not excuse students from taking them in Medical School. In the non-science area, courses in English, philosophy, sociology, economics, history, government and politics are recommended.

### BASIS OF SELECTION

Academic achievement, medical aptitude test scores, recommendations from college instructors or premedical committee and personal interview are all carefully considered in evaluating an applicant. A student may be denied admission because of unsatisfactory reports in any one of these areas. Academic achievement alone does not automatically insure acceptance as the Committee is equally concerned with personality, aptitude, character, integrity, motivation and assessment of the individual as a potential physician. Letters of recommendation are requested from at least two science instructors and one non-science instructor. Candidates will be expected to complete all required basic premedical subjects before July 1 of the year they are planning to enter.

Preference will be given to Maryland residents but well qualified applicants from other areas in the United States or Canada will be considered. Applicants from foreign schools must complete at least two years of premedical work in an approved college or university in the United States or Canada.

### DEFINITION OF RESIDENCE AND NON-RESIDENCE

Students who are minors are considered to be resident students if at the time of their registration their parents have been domiciled in this State for at least one year.

The status of the residence of a student is determined at the time of his first registration in the University, and may not thereafter be changed by him unless, in the case of a minor, his parents move to and become legal residents of the State by maintaining such residence for at least one full year. However, the right of the minor to change from a non-resident to resident status must be established by him prior to the registration period for any semester.



Adult students are considered to be residents if at the time of their registration they have been domiciled in Maryland for at least one year provided such residence has not been acquired while attending any school or college in Maryland or elsewhere. *Time spent on active duty in the Armed Forces while stationed in Maryland will not be considered as satisfying the one year period referred to above except in those cases in which the adult was domiciled in Maryland for at least one year prior to his entrance into the Armed Services and was not enrolled in any school during that period.*

The word domicile as used in this regulation shall mean the permanent place of abode. For the purpose of this rule only one domicile may be maintained.

#### STATE MEDICAL QUALIFYING CERTIFICATES

Candidates for admission who live in or expect to practice medicine in Pennsylvania, New Jersey or New York, should apply to their respective state boards of education for medical student qualifying certificates (Pennsylvania and New Jersey) or approval of applications for medical student qualifying certificates (New York).

#### *Addresses of the State Certifying Offices*

Director of Credentials Section, Pennsylvania Department of Public Instruction, Harrisburg, Pa.

Chief of the Bureau of Credentials, New Jersey Department of Public Instruction, Trenton, N. J.

Supervisor of Qualifying Certificates, The State Education Department, Examinations and Inspections Division, Albany, N. Y.

#### Current Fees

Application fee.....	\$ 7.50
Matriculation fee (paid once).....	10.00
Tuition fee (each year)—Residents of Maryland.....	650.00
Tuition fee (each year)—Non-Residents.....	800.00
Laboratory fee (each year).....	25.00
*Student health service fee (each year).....	10.00
Student activities and service fee (each year).....	20.00
**Lodging and meals fee—Baltimore City Hospitals (senior class)....	14.00
National Board Examination fee (seniors).....	10.00

\* In addition, all students are required to hold Blue Cross hospitalization insurance. Current fees for the individual plan are \$30.48 a year. Any increase in fees will be effective on the following semester bill. Married students may, if they wish, request family coverage.

\*\* Senior students will be billed for this fee, covering lodging and meals for a two-week period while on obstetrical service at Baltimore City Hospitals. This fee must be paid by all senior students.



## Fees

National Board Examination fee (sophomores).....	10.00
Graduation fee.....	15.00
Re-examination fee (each subject).....	5.00
Late registration fee .....	5.00
†Student Union fee.....	30.00
‡Special fee.....	10.00

## GRADUATE STUDENTS

Matriculation fee (for new students only, non-returnable).....	\$ 10.00
Tuition fee (per semester credit hour).....	12.00
Tuition fee for students carrying 10 or more credit hours per semester	120.00
Laboratory fees—where charged, range from \$10.00 to \$25.00 per course, per semester.	
Student Union fee	
Students carrying 10 or more credit hours per semester.....	30.00
Students carrying less than 10 credit hours per semester.....	6.00
Special fee	
Students carrying 10 or more credit hours per semester.....	10.00
Graduation fee	
Master's Degree.....	10.00
Doctor's Degree (including hood and microfilming of thesis)....	50.00

## RULES FOR PAYMENT OF FEES

Make all checks or money orders payable to the "University of Maryland."

When offering checks or money orders in payment of tuition and other fees, students are requested to have them drawn in the exact amount of such fees. Personal checks whose face value is in excess of the fees due will be accepted for collection only.

**ACCEPTANCE.** Payment of the matriculation fee of \$10.00 and of a deposit on tuition of \$50.00 is required of accepted applicants before the expiration date specified in the offer of acceptance. This remittance will be credited upon registration to the first semester charges. In the event of withdrawal before registration the \$10.00 matriculation fee will be retained by the School of Medicine and the \$50.00 advance deposit will be returned on request.

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† The Student Union fee is payable by all students enrolled in the Professional Schools on the Baltimore campus and is used to pay interest on and amortize the cost of construction of the Union Building.

‡ The Special fee is payable by all full-time students enrolled in the Professional Schools on the Baltimore campus and is used to finance equipment for the Union Building.

Students who enroll for the spring semester but who were not enrolled during the fall semester will be assessed a Student Union fee of \$15.00 and a Special fee of \$5.00.

**REGISTRATION.** For the fall semester, all students, after proper certification, are required to complete a set of registration cards to be found in the Student Lounge of the Gray Laboratory before taking them to the Registrar's Office. All students are expected to complete their registration, including the payment of bills on the registration days. Those who do not complete their registration on the prescribed days will be charged a fee of \$5.00.

One-half of the tuition fee and all of the following—the laboratory fee, the student health fee, the maintenance and service fee, the National Board Examination fee, the special fee, and the student activities fee are payable on the date specified for registration for the first semester. Blue Cross Hospitalization for six months in advance must be paid at the beginning of each semester.

The remainder of the tuition fee shall be paid on the date designated for the payment of fees for the second semester. Fourth year students shall pay the graduation fee, in addition, at this time.

#### PENALTY FOR NON-PAYMENT OF FEES

If semester fees are not paid in full on the specified registration dates, a penalty of \$5.00 will be added.

If a satisfactory settlement or an agreement for settlement, is not made with the business office within ten days after a payment is due, the student automatically is debarred from attendance at classes and will forfeit the other privileges of the School of Medicine.

#### RE-EXAMINATION FEE

A student who is eligible for reexaminations must secure a bill in the amount of \$5.00 from the Registrar's Office and make payment to the Cashier for each subject in which he is to be examined, and he must present the receipt to the faculty member giving the examination before he will be permitted to take the examination.

#### STUDENT ACTIVITIES FUND

This fund supports all student activities and is budgeted by the Student Council in accordance with its own by-laws. All expenditures from this fund must be approved by the Student Council. The fund supports the student recreational and social program, the student lounge and cafeteria, representation at national conventions for certain student organizations, the cost of membership in the National Internship Association, as well as other activities. A portion of the fund is allocated to the yearbook and provides each medical student with a copy of this publication.

## Student Health Service

JAMES R. KARNS, M.D. . . . . . Director, Student Health Service

The Medical School has made provision for the systematic care of undergraduate medical students according to the following plan:

1. *Preliminary Examination*—All new students will be examined during the first week of the semester. Notice of the date, time, and place of the examination will be announced to the classes and on the bulletin board. The passing of this physical examination is necessary before final acceptance of any student.

2. *Medical Attention*—Students in need of medical attention will be seen by the Director, Dr. James R. Karns, in his office on the 8th floor University Hospital at 12 m. daily, except Saturday and Sunday. In case of necessity, students will be seen at their homes.

3. *Hospitalization*—All students are required to have Blue Cross hospitalization insurance.

4. *Physical Defects*—Prospective students are advised to have any known physical defects corrected before entering school in order to prevent loss of time which later correction might incur.

5. *Eye Examination*—Each new matriculant is required to undergo an eye examination at the hands of an oculist (Doctor of Medicine) within the three months immediately preceding his entrance to the School of Medicine.

6. *Limitations*—It is not the function of this service to treat chronic conditions contracted by students before admission, nor to extend treatment to acute conditions arising in the period between academic years, unless the school physician recommends this service.

## General Rules

The right is reserved to make changes in the curriculum, the requirements for graduation, the fees and in any of the regulations whenever the University authorities deem it expedient. The School of Medicine will not be responsible for the students' personal property.

### GRADING SYSTEM

Official grades are designated by these symbols:

Symbol	
3	Upper third of class
2	Middle third of class
1	Lower third of class
P	Satisfactory completion of course
F	Failure
I	Incomplete
C	Condition

The class standing of all students will be released at the end of each academic session.

# ADVANCEMENT AND GRADUATION

1. No medical student will be permitted to begin work for credit in any semester of any year who reports for classes later than one week after classes begin, except by permission of the Dean.

2. Students will receive a grade for the various disciplines in the manner outlined below.

Anatomy	}	3, 2, 1 F, I, C
Biochemistry		
Physiology		
Microbiology		
Pharmacology		
Pathology		
Psychiatry		
Surgery		
Medicine		
Pediatrics		
Obstetrics-Gynecology		
Radiology	}	P, F, I, C
Ophthalmology		
Anesthesiology		
Preventive Medicine		

3. No student will be permitted to advance or to graduate with unabsolved failures, conditions or incompletes.

4. Students are required to attend all scheduled classes.

5. A student who has failures in two completed major subjects will be dropped from the rolls.

6. Should a student be required to repeat any year in any course, he must pay regular fees.

7. A student failing his final examinations for graduation at the end of the fourth year will be required to repeat the entire course of the fourth year and to take examinations in such other branches as may be required, provided he is permitted to enter the school as a candidate for graduation.

8. Department Heads may employ any grading system within their respective departments in order to arrive at the student's class standing and, therefore, his final grade.

9. The general fitness of a candidate for advancement and for graduation as well as the results of his examinations will be taken into consideration by the faculty.

## General Rules

10. Senior students must satisfactorily complete Part II of the National Board Examinations prior to their graduation. Sophomore students must satisfactorily complete Part I of the National Board Examinations before advancing to the third year.

### EQUIPMENT

11. At the beginning of the first year, all freshmen must possess a complete set of dissecting instruments. In addition, they must provide themselves with microscopes equipped with a mechanical stage and a substage lamp. Microscopes must meet the standards described below.

A standard microscope made by Bausch & Lomb, Leitz, Zeiss, or Spencer fitted with the following attachments, meets the requirements.

16 mm., 10x, 0.25 N.A.—4.9 mm. working distance.

4 mm., 43x, 0.65 N.A.—0.6 mm. working distance.

1.8 mm., 97x, oil immersion, 1.25 N.A.—0.13 mm. working distance.

Oculars: 10x and 5x. Huygenian eyepieces.

Triple nose pieces with 16 mm., 4 mm., and 1.9 mm. 125 N.A. oil immersion lens.

Wide aperture stage with quick screw condenser and built on, but detachable, ungraduated mechanical stage. Substage condenser, variable focusing type 1.25 N.A. with iris diaphragm. A rack and pinion focusing device is preferred. Mirror-plane on one side, concave on the other. A carrying case is recommended.

Students are cautioned with respect to the purchase of used or odd-lot microscopes since some older instruments were equipped with a 4 mm. (high dry) objective whose N.A. is marked as 0.85 N.A. This objective has such a short working distance (0.3 mm.) that it is difficult or impossible to focus through thick cover glasses or the standard hemocytometer cover glass without breakage. All microscopes are subject to inspection and approval by Dr. Frank H. J. Figge, and Dr. Andrew G. Smith, Room 209, Bressler Building, 29 S. Greene Street. Such approval must be obtained before September 5. This inspection is usually not made during August.

12. Prior to beginning the second semester of the freshman year, each student must provide himself with a stethoscope, sphygmomanometer and ophthalmoscope-otoscope. The Department of Physiology and the Division of Physical Diagnosis offer the following recommendations:

<i>Instrument</i>	<i>Recommended Type</i>	<i>Comment</i>
Stethoscope	Rieger-Bowles or	Purchase thick-walled rubber tubing. The wall thickness and internal diameter should be $\frac{3}{8}$ inch each.
	Sprague-Bowles	



<i>Instrument</i>	<i>Recommended Type</i>	<i>Comment</i>
Sphygmomanometer	Tycos aneroid	Other types are also satisfactory, but this has proved itself for all around reliability and durability.
Ophthalmoscope-Otoscope	Welch-Allyn	With closed (diagnostic) otoscope head and No. 106 May ophthalmoscope head (not deluxe).
	or National	With closed (diagnostic) otoscope head and May ophthalmoscope head.

The following equipment, which is frequently sold in a packaged kit with the above instruments will be needed for second year work in physical diagnosis:

Tuning fork	256 cycles per second	The large aluminum alloy type is preferred to the small stainless steel variety.
Reflex hammer	any simple type	Avoid specialized instruments with built in pins, brushes, etc.

13. Students in the second year class are also expected to provide themselves with a hemocytometer (Spencer Bright-Line). Third and fourth year students are required to provide themselves with short white lapel coats. Three button, 8 ounce sanforized duck coats are satisfactory.

#### STATE QUALIFYING CERTIFICATES

14. Candidates for admission who live in or expect to practice medicine in Pennsylvania or New Jersey should apply to their respective State Boards of Education for Medical Student Qualifying Certificates.

#### AWARDING OF COMBINED DEGREES

15. Students entering the School of Medicine on a three-year requirement basis from colleges which usually grant a degree on the successful completion of the first year of medicine, are restricted by the following regulations:

- a—The candidate must present a certificate from his college or university that he has absolved all of the requirements for this degree.
- b—The candidate must satisfactorily pass all courses in his first year in the School of Medicine.
- c—The Dean of the School of Medicine reserves the right to withhold his recommendation that a bachelor's degree be conferred at a commencement which occurs before the official release of first-year medical grades.

## General Rules

### TRANSCRIPTS

16. Students will be provided the first transcript of record without charge. After the first copy has been issued single copies will cost one dollar. When two or more copies are requested at the same time the first copy will cost one dollar, additional copies fifty cents each. Requests for transcripts must be filed with the Registrar's Office, University of Maryland, 522 West Lombard Street, Baltimore 1, Maryland.

### CHANGES OF ADDRESS

17. Students are required to give the Dean's Office and the Registrar's Office prompt notice of change in address.

### PARKING

18. Students are not permitted to use the University parking lots.

### HOUSING

There are no housing or living accommodations on the campus of the Medical School.

### LIBRARY REGULATIONS

#### *Loan Regulations*

Loan periods have been worked out according to demand for and protection of different types of material.

*Two-Week Loans:* All books except those on reserve.

*One-Week Loans:* All journals except the latest number (which does not circulate), and those on reserve.

*Overnight Loans:* Books and journals on reserve.  
(3:50 p.m.-2 p.m.)

#### *Special Rules for Books on Reserve:*

Students whose names appear on the check-list for the Mercy Hospital section will be granted the necessary hours to return reserve books.

Overnight books may be reserved in advance only within the week in which they will be used. Books may be reserved on Friday or Saturday for the following Monday.

Overnight books may not be reserved two successive nights by the same person.

Advance reserves will be held until one hour before closing.

## Fines

Fines are imposed not to acquire money, but to assure every student equal access to books.

*Two-Week Loans:* 5c per day.

*One-Week Loans:* 5c per day.

*Overnight Loans:* 15c for first hour; 5c for each additional hour or fraction thereof.

*Lost Books:* List price of the book. (Lost books should be reported at once.)

All books must be returned, lost books replaced or paid for, and fines paid before a student can finish the year in good standing.

In fairness to all concerned, these rules must be enforced without exception.

## CERTIFICATION FOR STATE BOARD AND NATIONAL BOARD EXAMINATIONS

No student will be certified to State Board or National Board examiners who has unabsolved failures in subjects taken during the academic period covered by these examinations.

## WITHDRAWALS AND REFUNDS

*Formal Withdrawal Procedures*—Students over 21 years of age desiring to leave the School of Medicine at any time during the academic year are required to file with the Dean a written application for withdrawal. In addition, the student must secure an “honorable dismissal release” form from the Dean’s secretary, and return this to the Dean’s office appropriately signed by representatives of the departments listed thereon, together with his “matriculation certificate.”

If these procedures are not completed, the student will not be entitled to honorable dismissal nor to refund of fees.

Students under 21 years of age must supplement the procedures previously described with the written consent of their parents or guardians.

*Academic Standing On Withdrawal*—Students who voluntarily withdraw during an academic semester will be given no credit.

Students are not permitted to resort to withdrawal in order to preclude current or impending failures. Their standing on withdrawal will be recorded in the registrar’s office.

Students who withdraw from the School of Medicine must apply to the Committee on Admissions for readmission, unless other arrangements have been consummated with the Dean’s written consent.

## Prizes, Scholarships

### Refunds on Withdrawal

Students who are eligible to honorable dismissal will receive a refund of current charges, after the matriculation fee has been deducted, according to the following schedule:

<i>Period elapsed after instruction begins</i>	<i>Percentage refundable</i>
Two weeks or less . . . . .	80%
Between two and three weeks . . . . .	60%
Between three and four weeks . . . . .	40%
Between four and five weeks . . . . .	20%
After five weeks . . . . .	0

## Prizes

### THE FACULTY PRIZE

The faculty will award the Faculty Gold Medal and Certificate and five Certificates of Honor to six of the first ten highest ranking candidates for graduation who, during the four academic years, have exhibited outstanding qualifications for the practice of medicine.

### THE DR. A. BRADLEY GAITHER MEMORIAL PRIZE

A prize of \$25.00 is given each year by Mrs. A. Bradley Gaither as a memorial to the late Dr. A. Bradley Gaither, to the student in the senior class doing the best work in genito-urinary surgery.

### THE DR. LEONARD M. HUMMEL MEMORIAL AWARD

A gold medal and certificate of proficiency will be awarded annually, as a memorial to the late Dr. Leonard H. Hummel, to the graduate selected by the Executive Committee of the faculty who has manifested outstanding qualifications in internal medicine.

### THE DR. HARRY M. ROBINSON, SR. PRIZE

A prize of \$25.00 is given each year in honor of Dr. Harry M. Robinson, Sr., Professor Emeritus of Dermatology, to the member of the senior class selected by the faculty who has done outstanding work in dermatology.

## Scholarships

A number of scholarships are available with stipends ranging from \$100 to \$650 a year with the average about \$250. Specific information on any of these is available on inquiry to Room 102, Davidge Hall. All scholarships are awarded for one academic year and will be renewed only on application. Applications are obtainable in Room 102, Davidge Hall and should be returned before the

end of the school year. They will be acted upon by the Faculty Committee on Scholarships and Loans shortly thereafter and the applicants notified of the decision as promptly as possible. Awards are made on a competitive basis and academic proficiency is the primary consideration. Students who do not qualify for scholarships may apply for a student loan.

## Loan Funds

A number of loan funds are available to students who are in financial need and application may be made at any time although most applications are made and considered shortly before the beginning of each semester. Except in unusual circumstances, loans from Medical School funds are limited at the present time to \$400 a year. Information on all loan funds is available in Room 102, Davidge Hall and all medical students who are in financial need are urged to inquire regarding procedure for applying. Loans are awarded on the basis of need and therefore a budget must be submitted with each application, along with the other supporting data. Most loans are repayable in partial installments of 20% each, beginning two years after graduation. Interest will be charged and this, together with principal of the fund as repaid, will be used as a rotating loan fund.





## ORGANIZATION OF THE CURRICULUM

The curriculum is organized under fifteen departments.

1. Anesthesiology.
2. Anatomy (including Histology, Embryology, and Neuro-anatomy).
3. Biological Chemistry.
4. Medicine (including Medical Specialties).
5. Microbiology.
6. Obstetrics and Gynecology.
7. Ophthalmology.
8. Pathology.
9. Pediatrics.
10. Pharmacology.
11. Physiology.
12. Preventive Medicine and Rehabilitation.
13. Psychiatry.
14. Radiology.
15. Surgery (including Surgical Specialties).

Instruction is given in four academic years of graded work.

Several courses of study extend through two years or more, but in no case are the students of different years thrown together in the same course of teaching.

The first and second years are devoted largely to the study of the structures, functions and chemistry of the normal body. Laboratory work occupies most of the student's time during these two years.

Some introductory instruction in medicine and surgery is given in the second year. The third and fourth years are almost entirely clinical.

A special feature of instruction in the School is the attempt to bring together teacher and student in close personal relationship. In many courses of instruction the classes are divided into small groups and a large number of instructors insures attention to the requirements of each student.

In most courses the final examination as the sole test of proficiency has disappeared and the student's final grade is determined largely by partial examinations, recitations and assigned work carried on throughout the course.

## INTERDEPARTMENTAL COURSES

### *ID. 1. Man and His Environment. (64 hours)*

First year. Distinguished leaders in American medicine participate in the presentation of these weekly sessions. The course is broad in scope, stressing the cultural aspects of anthropology with emphasis directed toward the sociological, psychological, physiological, and geneological relationships of man and his surroundings. All departments of the School of Medicine participate.

### *ID. 2. Introduction to Clinical Medicine. (64 hours)*

Second year. The techniques of obtaining medical histories are taught by lectures, demonstrations, and small group exercises. A concentrated effort is made to emphasize and illustrate the pathologic-physiology accounting for the pertinent symptoms and signs searched for in every medical history and physical examination. The Departments of Medicine, Obstetrics and Gynecology, Pediatrics, Preventive Medicine and Rehabilitation, Psychiatry, Radiology, and Surgery participate in the instruction.

### *ID. 3. Physical Diagnosis. (32 hours)*

Second year, second semester. This course implements ID. 2 and provides the student with bedside instruction in physical diagnosis. Small tutorial groups are formed each under the direction of an instructor. In the first five weeks, experience in physical examination of normal individuals is given one afternoon weekly. During the subsequent 12 weeks, students become acquainted with abnormal signs through examination of hospitalized patients. For the first five of these 12 weeks, the Cardiology Division gives instruction in the physical examination of the heart. Thereafter, sections are assigned in rotation to the Division of Neurology and the Department of Pediatrics for instruction in these specialties.

### *ID. 4. Interdepartmental Seminars. (64 hours)*

Third and fourth years. These seminars are designed to present, during the course of two academic years, a correlated consideration of the major disease processes encountered in the practice of medicine. All departments cooperate to provide an intensive presentation designed to elucidate the clinical and basic science aspects of the diseases under discussion.

## ANATOMY

*Professors:* FIGGE (HEAD OF DEPARTMENT), BRANTIGAN, NAUTA, UHLENHUTH.

*Associate Professors:* KRAHL, KUYPERS, LEVEQUE, MACK, WALKER.

*Assistant Professors:* MECH, SETTLE, AND STAFF.

### *Anat. 101. Gross Anatomy. (278 hours)*

First year, first semester. This course gives the student an opportunity to develop a basic concept of the morphology of the human body. It is closely interwoven with the study of neuroanatomy, histology, and embryology, and some time is devoted to roentgen anatomy. The entire human body is dissected.

### *Microanat. 101. Microanatomy. (144 hours)*

First year, first semester. This course presents an integrated study of the histology and embryology of the human body. An attempt is made to correlate this with gross anatomy

as well as other subjects in the medical curriculum. Special emphasis is placed on the dynamic and functional aspects of the subject.

*Neuroanat. 101. Neuroanatomy. (96 hours)*

First year, first semester. The study of the detailed anatomy of the central nervous system is coordinated with structure and function of the entire nervous system. The dissection of the human brain and the examination of stained microscopic sections of various levels of the brain stem are required.

*Anat. 103. Clinical Anatomy. (96 hours)*

Second year, second semester. The course is designed to bridge the gap between basic anatomy and clinical or applied anatomy. The study of surface anatomy is correlated with physical diagnosis. Students have an opportunity to perform a detailed anatomical dissection with emphasis upon clinical application. Laboratory fee, non-medical students, \$20.00.

### *For Graduates*

The graduate degrees offered by the Department of Anatomy are the Master of Science and the Doctor of Philosophy.

*Anat. 201. General Anatomy of the Human Body. (8)*

Same course as Microanat. 101, but on a more advanced level. It can be taken by graduate as well as postgraduate students. Laboratory fee, \$25.00.

*Anat. 202. The Anatomy of the Human Pelvis. (2)*

Fifteen periods of four hours each during the first semester, mornings by arrangement. This course is open to graduate students, medical students, and postgraduate students.

*Anat. 203. Practical Anatomy. (4)*

Same course as Anat. 103 but on a more advanced level. Laboratory fee, \$20.00.

*Anat. 204. Fetal and Infant Anatomy. (2)*

Fifteen periods of three hours each, every Thursday from 2:00 to 5:00 p.m. during the first semester. This course is open to graduate students and postgraduates interested in Pediatrics.

*Anat. 205. Research in Anatomy.*

Maximum credits, 12 per semester. Research work may be taken in any one of the branches of Anatomy.

*Neuroanat. 201. Human Neuroanatomy. (4)*

Same course as Neuroanat. 101, but with additional work of a more advanced nature. Laboratory fee, \$10.00.

*Neuroanat. 202. Research in Neuroanatomy.*

Maximum credits, 12. Research work involving the central or peripheral nervous system.

*Microanat. 201. Mammalian Histology. (6)*

Same course as Microanat. 101, but with additional work of a more advanced nature. Laboratory fee, \$10.00.

## *Microanatomy, Anesthesiology, Biological Chemistry*

### *Microanat. 202. Normal and Typical Growth.*

Lectures in Problems of Growth (2). Two hours per week, time to be arranged. Sixteen weeks, second semester.

### *Microanat. 203. Research.*

Maximum credits, 12. Research work may be taken in any one of the branches which form the subject of Microanatomy (including cancer research).

## ANESTHESIOLOGY

*Professor:* HELDRICH.

*Associate Professor:* HACKETT AND STAFF.

During the first two years, the Department of Anesthesiology presents several lectures in the courses taught by the various pre-clinical departments. These lectures are intended to illustrate the application of the basic sciences to the clinical practice of anesthesiology. Emphasis is placed upon the physiologic and pharmacologic aspects of preanesthetic medication, choice of anesthesia and management of patients during surgery.

### *Anes. 101. Introduction to Anesthesiology.*

Third year. The third year class is given a series of one hour lectures dealing with preoperative preparation and inhalation, local and spinal anesthesia. An effort is made to correlate the basic sciences with their clinical application.

### *Anes. 102. Introduction to Anesthesiology.*

Fourth year. Each senior student spends two weeks in the operating rooms of the University Hospital or one of its affiliated hospitals administering anesthesia. Informal group meetings are held to emphasize factors affecting the anesthetic management of patients and to discuss pertinent anesthetic problems. The students also attend the regularly scheduled staff conferences in Anesthesiology.

## BIOLOGICAL CHEMISTRY

*Associate Professors:* HERBST (ACTING HEAD OF DEPARTMENT), RUDOLPH, BESSMAN.

*Assistant Professor:* EMERY; AND STAFF.

### *Biochem. 101. Principles of Biochemistry. (208 hours)*

First year, second semester. Basic chemical and physical chemical aspects of biochemistry are presented both in lectures and in laboratory experiments. Intermediary metabolism, metabolic regulation and control, and the physiological secretions and excretions of mammalian cells are considered and the biochemical lesions in nutritional and metabolic diseases are characterized.

### *For Graduates*

Graduate degrees offered by the Department of Biological Chemistry are the Master of Science and Doctor of Philosophy.



*Biochem. 201. Principles of Biochemistry. (8)*

Same course as Biochem. 101 with additional assignments in biochemical literature. Laboratory fee, \$20.00.

*Biochem. 202. Special Topics in Biochemistry. (1, 1)*

Prerequisite, Biochem. 101 or 201. Reading assignments and written summaries of the classical research literature in biochemistry.

*Biochem. 204, 205. Seminar. (1, 1)*

First and second semesters. Reports on the current literature or on research in progress.

*Biochem. 206. Enzymes and Metabolism. (3)*

First semester. Three lectures per week on enzyme kinetics and intermediary metabolism. Prerequisite, Biochem. 201.

*Biochem. 207. Enzymes and Metabolism Laboratory. (3)*

First semester. Three three-hour laboratory periods per week on radioactive tracer methods, cell fractionation, enzyme preparation and assay procedures. To be taken concurrently with Biochem. 206.

*Biochem. 208. Biochemical Preparations. (1-4)*

Credit according to work assigned. The preparation of biochemicals by methods illustrating useful techniques for the isolation and purification of natural products.

*Biochem. 399. Research.*

Maximum credits, 12 hours per semester.

## MEDICINE

*Professors:* WOODWARD (HEAD OF DEPARTMENT), CAREY, KRAUSE, LOVE, MERLIS, T. MORRISON, PETERS, REVELL, ROBINSON, JR., SACKS, VAN BUSKIRK.

*Associate Professors:* ANDERSCH, BUBERT, CONNOR, COTTER, EASTLAND, ELLIS, GUNDRY, HETHERINGTON, KARNS, LISANSKY, MARRIOTT, MC CRUMB, S. MORRISON, MIRICK, PARKER, R. C. V. ROBINSON, L. SCHERLIS, W. SMITH, SNYDER, TIGERTT, WISWELL.

*Assistant Professors:* ANDRES, BEACHAM, BERESTON, BORGES, CARROL, CHINARD, EBELING, ENTWISLE, FELDMAN, FORT, FREEMAN, GREISMAN, JACOBSON, LEACH, LEGGE, LEGUM, LERNER, LEVY, G. MC LEAN, MERRILL, MORGAN, MULLER, REITER, S. SCHERLIS, SCHIER, SCHUBART, SHAPIRO, SERRA, S. SMITH, SPICER, SPURLING, STOREY, TEITELBAUM, WISSEMAN, WORKMAN AND STAFF.

*Med. 102. Clinical Clerkship in Medicine.*

Third year. This course consists of a clinical clerkship on the medical wards of the University Hospital for a period of 9 weeks. Students are responsible, under supervision, for the history, physical examination, laboratory examinations and progress notes of assigned cases. They also attend ward rounds and conferences in general medicine with the Resident Staff, Attending Physicians and Chief of Service. For an additional 3 weeks, students are assigned to the Baltimore City Hospitals for work in the General Medical Outpatient Department. They also serve as clinical clerks on the Chronic Disease Wards and attend ward rounds and teaching conferences in General

## Medicine

Medicine, Tuberculosis, Neurology and Radiology. During this quarter, certain students are assigned to the Loch Raven Veterans Administration Hospital as clinical clerks for special instruction in diseases of the chest.

### *Med. 103. The Principles of Medicine. (47 hours)*

Third year. A series of lectures in General Medicine, Neurology, Clinical Medicine and Medical Jurisprudence are given to the entire junior class.

### *Med. 104. Advanced Clinical Clerkship in Medicine.*

Fourth year. Clinical clerkship on the medical wards of University Hospital, Mercy Hospital, and the Fort Howard and Loch Raven Veterans Administration Hospitals for 4 weeks. An additional 4 week period is spent in the Medical Outpatient Department where instruction is given in General Medicine and the medical specialties. During this tour the senior students make home visits on selected patients, participate in the workup of chronically ill patients at the Montebello Chronic Disease Hospital and attend consultative rounds in cardiology, infectious diseases, gastroenterology, radioisotopes, neurology, hematology, endocrinology and pulmonary diseases on the wards of the University Hospital.

Selected students who have completed the junior year may take Medicine 104 during the summer months. Application should be made to the Department Head prior to March 1 of the current year. Those students completing the course successfully will be assigned elective time during the academic year. This program is designed to foster research for promising students and to provide for more intensive training in the fundamentals of clinical medicine.

## SUMMER FELLOWSHIPS

Students who have completed their junior year are encouraged to seek additional training during the summer months preceding their senior studies. This training may be obtained in one of several ways. A limited number of students are appointed to Clinical Clerkships on the Medical Wards of the University Hospital. In these positions, they are responsible, under supervision, for the history, physical examination, laboratory studies and progress notes of assigned cases.

In addition, certain of the medical subspecialty divisions provide specialized training for students as Summer Fellows during the summer months. The applicant is encouraged to apply directly to the Division Head. These fellowships enable the student to become acquainted with the various specialized diagnostic and research techniques, the clinical problems and therapeutic regimens peculiar to each of the medical subspecialties. Summer Fellowships are available in the following Divisions: Cardiology, Clinical Pathology (2 appointments), Dermatology (2 appointments), Endocrinology, Gastroenterology, Hypertension, Infectious Diseases (2 appointments), Legal Medicine, Neurology and Radioisotopes (1 appointment), Pulmonary Diseases and Clinical Physiology (2 appointments). Interested applicants should contact the respective Division Head prior to January 1 of the year in which the fellowship is desired. In many instances a fellowship award is made providing remuneration for two or three of the summer months.

## POSTGRADUATE FELLOWSHIPS

These are available in the various specialties of Medicine. For details see specific division.

The Department of Medicine, for administrative purposes, is divided into eleven Divisions. Each of these Divisions participates in the major courses taught by the Department. In addition, a number of specialized courses and postgraduate fellowships are offered by the Divisions.

### *Division of Arthritis*

*Doctors:* MARRIOTT (HEAD OF DIVISION), SCHUBART, KOCHMAN, AND STAFF.

*Med. 105. Division Rounds.*

Third year. Elective.

*Med. 105a. Outpatient Clinic.*

Fourth year. Elective. Weekly arthritis outpatient clinics and attendance at weekly arthritis rounds.

### *Division of Cardiology*

*Doctors:* L. SCHERLIS (HEAD OF DIVISION), LOVE, JR., LEACH, S. SCHERLIS, SINGLETON, GONZALES, TOWNSHEND, VAN LILL, III, AND STAFF.

*Physiol. 101. Principles of Physiology.*

First year. Lectures and demonstrations in the Electrical Activity of the Heart in collaboration with the Department of Physiology.

*ID. 3. Physical Diagnosis.*

Second year, second semester. The Division of Cardiology participates in presenting this course.

*Med. 106. Electrocardiology. (16 hours)*

Third and fourth years. Elective. This is an introductory course consisting of illustrated group lectures and exercises.

## FELLOWSHIPS

These are available to selected postgraduate applicants. The Fellow participates in the activities of the Division, including cardiac catheterization, dye dilution and other physiologic studies. The fellowship begins July 1st of each year. A financial stipend is provided. Application is made through the Head of the Division and must be completed by October of the preceding year.

### *Division of Clinical Pathology*

*Doctors:* SACKS (HEAD OF DIVISION), ANDERSCH, SPURLING, DE HOFF, S. MILLER, FUNK, AND STAFF.

*Med. 101. Clinical Pathology. (128 hours)*

Second year. The course is designed to train the student in the performance and interpretation of the fundamental laboratory procedures used in clinical diagnosis. During the first semester the basic techniques of hematology as well as clinical aspects of blood diseases are taught. Blood group immunology in relation to transfusion is also covered. In the second semester the performance and interpretation of tests used in the diagnosis of renal, hepatic, gastric, pancreatic and metabolic diseases are considered. A review, with clinical applications, of acid-base balance and electrolyte disturbances is included. Methods of examination of cerebrospinal fluid, transudates and exudates are taught. Elements of clinical parasitology complete the work in this semester.

Each student provides his own microscope and blood counting equipment. A completely equipped locker is provided for each student.

*Med. 102a. Advanced Clinical Pathology. (8 hours)*

Third year. Seminar discussions of diagnostic laboratory procedures in selected diseases are given during the Medicine quarter. Each student is assigned a completely equipped locker adjacent to the wards for use during the clinical clerkships. Microscope and blood counting equipment must be provided by the student.

POSTGRADUATE FELLOWSHIPS

Two full-time clinical and research fellowships in hematology are available to applicants who have had a minimum of one year internship. A financial stipend is provided. Application should be made to the Head of the Division.

*Division of Dermatology*

*Doctors:* H. M. ROBINSON, JR., (HEAD OF DIVISION), R. C. V. ROBINSON, ELLIS, BERESTON, SHAPIRO, BUNDICK, M. COHEN, HOLLANDER, BACHARACH, STRAHAN, AND STAFF.

*Med. 107. Introduction to Dermatology.*

Third year. Students are given assigned reading on the more common skin eruptions. Nine two hour clinical sessions are held for each quarter of the junior class. Individual instruction is given by one of the senior staff members emphasizing the pertinent aspects of differential diagnosis.

*Med. 108. Practical Exercises in Dermatology.*

Fourth year. Groups of twelve students spend twenty hours in the outpatient department where they are given individual instruction in the diagnosis and treatment of cutaneous lesions. Emphasis is laid on the relationship of various eruptions to systemic conditions. Instruction is given in mycologic technique. Six one hour lecture demonstrations are given to the entire senior class, two of these are panel discussions with the senior members of the dermatology staff.

GRADUATE TRAINING

The Division of Dermatology is approved by the American Board of Dermatology for a three year period of training which is required by the Board. This



consists of instructions in the basic sciences (mycology, bacteriology, histopathology, chemistry and physiology), and instruction in clinical dermatology. Emphasis is placed on the relationship of cutaneous lesions to systemic diseases. Residents and Fellows spend a part of the training period at the Rosewood School for Retarded Children, the Baltimore City Hospitals and in the private offices of the members of the staff. Temporary membership in the clinical societies is provided under the sponsorship of the Division Head.

### *Division of Endocrinology and Metabolism*

**Doctors:** CONNOR, (HEAD OF DIVISION), WISWELL, WORKMAN AND STAFF.

#### *Endocrine Clinic—Conference and Rounds.*

Fourth year. Elective. Patients with a variety of Endocrine-Metabolic Diseases are seen in the Out-Patient Department every Monday afternoon from 1-3:30 p.m. This is followed by a Conference in which clinical case material is presented for discussion with staff members and students actively participating. Every Friday afternoon weekly ward rounds are held.

### RADIOACTIVE ISOTOPE LABORATORY

#### *Physiol. 101. Principles of Physiology.*

First year. In cooperation with the Department of Physiology, two orientation lectures and 8 laboratory sessions of 4 hours each are devoted to the discussion and demonstration of radioisotope techniques useful in medicine.

#### *Pharmacology 201.*

Second year. In cooperation with the Department of Pharmacology, a portion of one laboratory session is utilized to demonstrate the accuracy of a radioisotope method of estimating thyroid function.

### POSTGRADUATE FELLOWSHIPS

Post-graduate Fellowships are available to applicants who have completed internship and at least one year of residency training. Opportunities for active participation in clinical and research activities are available. Independent research investigations are encouraged. A financial stipend is provided. Three full-time fellowship positions are available.

### *Division of Gastroenterology*

**Doctors:** EBELING (HEAD OF DIVISION), S. MORRISON, V. SMITH, SCHOCHAT AND STAFF.

#### *ID. 2. Introduction to Clinical Medicine.*

Second year. The Division of Gastroenterology participates in the presentation of this course.



## Medicine

### *Division of Hypertension*

*Doctors:* REVELL, JR. (HEAD OF DIVISION), BORGES, COWLEY, ENTWISLE, AND STAFF.

*Med. 110. Conferences on Hypertension.*

Third year. Elective. Conferences on pathological-physiology of hypertension, sites of action of antihypertensive drugs, methods of screening patients with hypertension and choice of therapy in hypertensive patients.

*Med. 111. Outpatient Clinic and Division Rounds.*

Fourth year. Elective. Weekly clinics and attendance at rounds.

#### POSTGRADUATE FELLOWSHIPS

The Division sponsors two Fellows who receive training in pathological-physiology of hypertensive states, techniques of screening patients and management of hypertensive renal problems. In addition, he participates actively in investigative problems. A financial stipend is provided.

### *Division of Infectious Diseases*

*Doctors:* MC CRUMB (HEAD OF DIVISION), M. J. SNYDER, PARKER, HORNICK, SCHUEDERBERG AND STAFF.

#### POSTGRADUATE FELLOWSHIPS

The Division sponsors two Fellows who receive instruction in laboratory techniques and clinical investigation. Fellows participate in all functions of the Division, including collaboration in investigative problems. A financial stipend is provided. Application is made through the Head of the Division.

### *Division of Neurology*

*Doctors:* VAN BUSKIRK (HEAD OF DIVISION), LERNER, MERRILL, TEITELBAUM, COTTER, HULFISH AND STAFF.

*Med. 112. Introduction to Clinical Neurology. (15 hours)*

Second year. Lectures in neurologic diagnosis are presented, stressing correlation of anatomy and physiology of the nervous system with clinical neurology.

*ID. 3. Physical Diagnosis.*

Second year, second semester. The Division participates in presenting this course.

#### POSTGRADUATE FELLOWSHIPS

The Division sponsors fellowships in Clinical Neurology including training in related basic sciences such as neurophysiology, neuroanatomy, neuropathology and neuroradiology. A financial stipend is provided.

### *Division of Physical Diagnosis*

*Doctor:* MARRIOTT (HEAD OF DIVISION), AND STAFF.

#### *ID. 2. Introduction to Clinical Medicine.*

Second year. The Division participates in presenting this course.

#### *ID. 3. Physical Diagnosis. (32 hours)*

Second year, second semester. This course implements ID. 2 and provides the student with bedside instruction in physical diagnosis. Small tutorial groups are formed each under the direction of an instructor. In the first five weeks, experience in physical examination of normal individuals is given one afternoon weekly. During the subsequent twelve weeks, students become acquainted with abnormal signs through examination of hospitalized patients. For the first five of these twelve weeks, the Division of Cardiology gives instruction in the physical examination of the heart. Thereafter, sections are assigned in rotation to the Division of Neurology and the Department of Pediatrics for instruction in these specialties.

### *Division of Pulmonary Diseases*

*Doctors:* SPICER (HEAD OF DIVISION), STOREY, JACOBSON, MORGAN AND STAFF.

#### *Med. 113. Outpatient Clinic and Division Rounds.*

Fourth year. Elective. The clinic provides an opportunity for clinical and physiologic study of patients with acute and chronic pulmonary diseases. Allergic problems are handled within the framework of the Division. The service conducts ward rounds and a weekly chest conference on problem cases.

### POSTGRADUATE FELLOWSHIPS

The Division sponsors Fellows who receive instruction in the clinical and laboratory aspects of chest diseases. Tests of pulmonary function are emphasized. Fellows participate in the investigative programs. A financial stipend is provided.

## MICROBIOLOGY

*Professor:* WISSEMAN (HEAD OF DEPARTMENT).

*Associate Professor:* SMITH.

*Assistant Professors:* SNYDER, EYLAR AND STAFF.

#### *Microbiol. 101. Medical Microbiology and Immunology. (180 hours)*

Second year, first semester. This course is intended to introduce the student to basic concepts of microbial agents and immunologic mechanisms necessary to understand infectious diseases, public health and diseases of immunologic origin. Properties of microorganisms are considered in relation to pathogenesis of infections, mechanisms of tissue damage and host defense mechanisms. Bacterial, fungal, viral and rickettsial agents are studied in both lecture and laboratory.

*For Graduates*

The Department of Microbiology offers the degree of Doctor of Philosophy and encourages especially those who wish to enroll in the combined M.D.-Ph.D. program. While the degree of Master of Science may be offered in special instances, priority for research facilities will be given aspirants to the Ph.D. degree. These courses are available only by prior arrangement with the Staff.

*Microbiol. 201. Medical Microbiology and Immunology. (8)*

First semester. Four lecture hours and eight hours in laboratory and group conferences per week. Laboratory fee, \$10.00. This course, intended for the serious advanced student of medical microbiology, is built upon the framework of Microbiol. 101 supplemented with advanced readings and laboratory work.

*Microbiol. 203. Microbial Physiology. (3)*

Second semester, alternate years. Three lectures per week supplemented with demonstrations. By consent of instructor.

*Microbiol. 205. Cytology and Genetics of Microorganisms. (2)*

Second semester, alternate years. One lecture and one laboratory per week. Laboratory fee, \$10.00. Registration by consent of instructor.

*Microbiol. 206, 207. Seminar. (1, 1)*

First and second semesters. One session per week. Graduate students, staff and guests participate in comprehensive and critical reviews of subjects of special interest or pertinent to graduate training program.

*Microbiol. 208. Medical Mycology. (2)*

Second semester, alternate years. One lecture and one laboratory per week. Laboratory fee, \$10.00. Registration by consent of instructor.

*Microbiol. 209. Special Topics.*

(Permission and credit arranged individually.) This course provides the opportunity for the graduate student to pursue under supervision subjects of special interest not offered in other formal courses.

*Microbiol. 399. Research (for thesis problem).*

Maximum credits, 12 hours per semester.

OBSTETRICS AND GYNECOLOGY

*Professors:* HASKINS (HEAD OF DEPARTMENT), KALTREIDER.

*Clinical Professors:* REESE, SIEGEL.

*Associate Clinical Professors:* CORNBROOKS, MC NALLY.

*Assistant Professor:* MOLUMPHY.

*Assistant Clinical Professors:* BRADY, DIEHL, DIGGS, DIXON, DAVIS, MORRIS, MORRISON, SAVAGE, SEEGAR, SMITH; AND STAFF.

*Ob.-Gyn. 101. Clinical Clerkship in Obstetrics and Gynecology.*

Third year. Students are assigned to Obstetrics and Gynecology for a period of six

weeks. As clinical clerks, they participate in the original diagnostic studies, delivery and pelvic surgical procedures of hospitalized patients. The students collaborate with the House Officers and private physicians in the postoperative and postpartum care of all patients.

Daily rounds and departmental conferences with House Officers and the Attending Staff aid the student in the interpretation and correlation of his observations and the various therapeutic regimens. There is specific instruction in pathology and the basic sciences as they are related to obstetrics and gynecology. Obstetrical manikin instruction is provided.

*Ob.-Gyn. 102. Advanced Clinical Clerkship in Obstetrics and Gynecology.*

Fourth year. Students are assigned to obstetrics and gynecology for a period of four weeks. Small groups of students attend Baltimore City Hospitals for two weeks in rotation. Participation in deliveries and prepartum and postpartum care are accomplished on a high level of individual student responsibility. Rounds and other organized instruction complete the obstetrical assignment of the student.

During the remaining two weeks, the student is assigned to the University Hospital Outpatient Department. Instruction is directed toward obstetric and gynecologic office procedures. As a clinical clerk, the student examines obstetric and gynecologic patients and follows them. He attends the several specialty clinics where instruction in endocrinology, female sterility and gynecologic cancer is given.

## OPHTHALMOLOGY

*Assistant Professors:* OZAZEWSKI (ACTING HEAD OF DEPARTMENT), KREMEN; AND STAFF.

*Ophthal. 101. Introduction to Ophthalmology. (20 hours)*

Third year. The anatomy and physiology of the eye and various methods used in making ophthalmologic examinations are reviewed. Weekly section work, demonstrating the use of the ophthalmoscope, with the aid of kodachrome transparencies of the oculi, is carried on during the entire session at the Baltimore Eye, Ear and Throat Hospital.

*Ophthal. 102. Ophthalmology Clinic.*

Fourth year. Ward rounds, demonstrations, and clinics in diseases of the eye.

## PATHOLOGY

*Doctors:* FIRMINER (HEAD OF DEPARTMENT), FISHER, WAGNER.

*Associate Professors:* LINDENBERG, LOVITT, JR., REIMANN, SCHULTZ, WARNER, WEINBERG, WRIGHT.

*Assistant Professors:* ANTONIUS, BURKART, GUERIN, HOLLANDER, KIEFER, PETTY, WOOD; AND STAFF.

*Path. 101. General, Systemic and Experimental Pathology. (364 hours)*

Second year. This course starts with the study of the basic principles of pathology and progresses with the study of diseases of the various organ systems. Teaching is chiefly by the case method using fresh and fixed autopsy cases but also utilizes gross



## *Pathology*

museum specimens and a set of prepared selected histological slides. Students assist in the performance of autopsies in small groups, prepare final protocols and present the findings and interpretation of the cases to others in the class.

Included in this course are a series of experiments to illustrate the dynamics of disease processes culminating in an original experiment or literary research project with a final written report.

### *Path. 102. Correlative Medical Pathology. (9 hours)*

Third year. This course is given in collaboration with the Department of Medicine and consists of a series of conferences with small groups of students, an internist and a pathologist. An illustrative clinical case is used as the base for discussion of a few selected diseases with particular emphasis on correlating the anatomical and functional changes with the clinical disease.

### *Path. 103. Surgical Pathology. (24 hours)*

Fourth year. This course consists of a series of rather informal lectures and discussions of the pathology of various surgical conditions with small groups of students using colored lantern slides, gross museum specimens, a set of prepared microscopic slides and current gross surgical specimens.

### *Path. 104. Clinical Pathological Conferences. (36 hours)*

Third and fourth years. These exercises are held in collaboration with various clinical departments. Histories from highly selected cases are circulated prior to the conference. Diagnoses are submitted and the differential diagnoses are discussed. The pathological findings are then presented and correlated with the clinical disease.

### *Path. 105. Elective Pathology. (115 hours)*

Fourth year. Students may spend a month continuously in pathology as an assistant to a resident participating in autopsies, examination of surgical specimens and contributing to discussions in the various conferences of the Department.

## FELLOWSHIPS (AFTER SOPHOMORE YEAR)

Students may be selected for summer fellowships in pathology or in certain instances drop out of the regular curriculum for a year and devote their entire time to pathology. Their activities are either of two types; one consists of serving as externs in pathology; the other is directed more toward research with students participating in research projects under the supervision of a Staff member.

## *Division of Neuropathology*

*Doctors:* WAGNER (HEAD OF DIVISION), KELLY, LINDSETH, AND STAFF.

A series of lectures, demonstrations and case studies relating to the problems of neurologic disease is offered as a unit of the second year course in pathology. Additional courses offered include:

### *Path. 106. Correlative Neuropathology. (4 hours)*

Third year. This course is given in collaboration with the Division of Neurology. Pre-



sentation of the history of an illustrative case is done by the student. This is followed by group discussion and by the presentation of neurologic and pathologic findings by the faculty.

*Path. 107. Advanced Neuropathology.*

Elective course open to third and fourth year students and Doctors of Medicine. One hour per week, second semester. Includes review of practical anatomy, discussion of pathologic principles as applied to the central nervous system, staining techniques and a thorough study of a selected group of illustrative cases with emphasis on clinical correlation and microscopic appearance. Seminar discussions and papers presented by students are included. Offered annually for ten acceptable students.

*Division of Forensic Pathology*

*Doctors:* FISHER (HEAD OF DIVISION), FREIMUTH, LOVITT, JR., GUERIN, PETTY, LINDENBERG, AND STAFF.

*For Graduates*

In addition to teaching basic forensic pathology in the second year course this division offers a number of other courses including a graduate program in toxicology leading to the degrees of Master of Science and Doctor of Philosophy in Toxicology.

*Leg. Med. 201. Legal Medicine. (1)*

Third year or graduate students. This course consists of one hour of lecture for each of 12 weeks and 4 hours of assigned reading.

*Leg. Med. 202. Toxicology. (10).*

Two hours lecture, 8 laboratory hours per week for one year.

*Leg. Med. 203. Gross Pathologic Anatomy as Related to Toxicology. (2)*

Two hours per week for one year.

*Leg. Med. 204. Research in Toxicology Leading to Preparation of a Thesis for the M.S. (6)*

Minimum credits, six.

*Leg. Med. 205. Research in Toxicology Leading to Preparation of a Thesis for the Ph.D. (30)*

FELLOWSHIPS

A limited number of physicians or students with a minimum of one year training in Pathologic Anatomy are appointed as Research Fellows for training and research in medicolegal pathology.

PEDIATRICS

*Professors:* BRADLEY (HEAD OF DEPARTMENT), FINKELSTEIN.

## *Pediatrics, Pharmacology*

*Associate Professors:* BESSMAN, F. B. SMITH.

*Assistant Professors:* BALDWIN, BESTERBEURTJE, FINEMAN, GLASER, GLICK, GOOD, NICHOLSON, SEABOLD, WELLS.

*Associates:* HOWELL, MANSDORFER, MC CRUMB, S. SCHERLIS, SPRAGINS; AND STAFF.

### *Ped. 101. Inpatient Clerkship.*

Third year. Students are assigned as clinical clerks for a period of six weeks to the pediatric wards of the University and Mercy Hospitals. They are responsible for patient care and work with house staff and instructors in planning the workup and treatment of assigned patients. Ward rounds are attended three times weekly. The students are assigned tutors who meet with their students three times weekly.

Daily conferences are held covering x-ray diagnosis, cardiology, journal review, chart conferences, neo-natal mortality, case discussions and metabolic diseases. Discussions cover concepts of the premature and neonate, therapeutic management of pediatric patients, nutritional aspects and disturbances of the genitourinary tract.

### *Ped. 102. Outpatient Department Clerkship.*

Fourth year. Students assigned to pediatrics as clinical clerks for a period of four weeks work in the Pediatric Outpatient Department of the University Hospital. All patients seen by the student are reviewed by an instructor of the pediatric staff. Daily conferences covering a wide range of pertinent pediatric topics are held from 9:30 to 10:30 a.m. Students are assigned to the Development, Seizure, Pediatric Hematology, Cardiology and Child Guidance Clinics. Senior students are responsible for physical examinations of all neonates. Field trips to various community agencies are offered to selected students. Ward rounds for senior students are held twice weekly in the University Hospital. Senior students attend the departmental noon conferences.

### *Ped. 103. Laboratory Research Problems in Pediatrics.*

Second year. Elective (two students per year). Students will be required to set up simple laboratory procedures to be used by them in the study of a clinical problem. Problems will be selected of such limited scope that a fairly complete project can be done by two students cooperating in their elective time over a period of one year. Emphasis will be made on the accuracy and reliability of standard techniques, as applied to the detailed analysis of a clinical problem. Interested students should apply to Dr. Bessman.

## PHARMACOLOGY

*Professor:* KRANTZ (HEAD OF DEPARTMENT).

*Associate Professors:* TRUITT AND BURGISON; AND STAFF.

### *Pharmacol. 101. General Pharmacology. (216 hours)*

Second year. This course is designed to include those phases of pharmacology necessary for an intelligent use of drugs in the treatment of disease. The didactic instruction includes materia medica, pharmacy, prescription writing, toxicology, dosology, pharmacodynamics and experimental therapeutics. The laboratory exercises parallel the course of lectures.

In addition, optional conference periods and lectures are available for students desiring further instruction or advice.

### For Graduates

All students majoring in the Department of Pharmacology with a view to obtaining the degree of Master of Science or Doctor of Philosophy should secure special training in anatomy, mammalian physiology, organic chemistry and physical chemistry.

*Pharmacol. 201, f.s., General Pharmacology. (8)*

Same as 101, for students majoring in pharmacology. Additional instruction and collateral reading are required. Laboratory fee, \$20.00.

*Pharmacol. 205. Research.*

Maximum credits, 12. Credit in accordance with the amount of work accomplished.

*Pharmacol. 206. Pharmacologic Methods.*

Maximum credits, 4. Credit in accordance with the work accomplished.

*Pharmacol. 207, 208. Chemical Aspects of Pharmacodynamics. (2-2)*

### PHYSIOLOGY

*Professors: \*AMBERSON (HEAD OF DEPARTMENT), FERGUSON, D. C. SMITH.*

*Associate Professor: J. I. WHITE.*

*Assistant Professor: FOX; AND STAFF.*

*Physiol. 101. Principles of Physiology. (225 hours)*

First year, second semester. The lectures cover the major fields of physiology, including the following areas: central and peripheral nervous systems, neuro-muscular apparatus, heart and circulation, respiration, kidney and body fluids, gastrointestinal tract, endocrines and reproduction. The laboratory includes experiments with frog and turtle heart and nerve-muscle preparations, mammalian operative work and observations on the human subject.

### For Graduates

The Department of Physiology prefers to accept students who have already had some graduate training elsewhere. Before admission to candidacy for the Doctor of Philosophy degree the Department gives a qualifying examination, both oral and written, which must be satisfactorily passed.

In the usual case a student majoring in Physiology will be expected to take *Physiol. 101* before, or concurrently with, courses 201 to 206 below. Such a student will extend his major program by taking courses in other departments of this University, and by enrolling in the summer course in physiology at the Marine Biological Laboratory, Woods Hole, Massachusetts.

*Physiol. 201. Experimental Mammalian Physiology.*

Time and credit by arrangement.

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\*Retired June 30, 1959

## *Physiology, Preventive Medicine and Rehabilitation*

### *Physiol. 202. Blood and Tissue Proteins. (2)*

Two lectures a week, for 15 weeks.

### *Physiol. 204. Physiological Techniques.*

Time and credit by arrangement.

### *Physiol. 205. Physiology of Kidney and Body Fluids. (2)*

Two hours a week, lectures, seminars and conferences, for 15 weeks.

### *Physiol. 206. Seminar.*

Credit according to work done.

### *Physiol. 207. Research.*

By arrangement with the Head of the Department.

## PREVENTIVE MEDICINE AND REHABILITATION

*Professors:* ENTWISLE (HEAD OF DEPARTMENT) AND H. WILLIAMS.

*Associate Professors:* DOWLING, MAHONEY, TAYBACK AND WARTHEN.

*Assistant Professors:* A. RICHARDSON, P. RICHARDSON; AND STAFF.

### *Prev. Med. 101. Biostatistics. (17 hours)*

First year, second semester. This series of lectures illustrates the basic methods of statistical analysis and demonstrates their use in several areas of clinical investigation.

### *Prev. Med. 102. Epidemiology. (18 hours)*

Second year. The epidemiology and control of certain diseases are considered in a series of lectures.

### *Prev. Med. 103. Applied Preventive Medicine and Rehabilitation I. (38 hours)*

Third year. This course consists of three parts. Major disease control programs, community medical resources and medical care programs are considered during eighteen hours of lectures. Students also participate in the work of the Medical Care Clinic for the population on public assistance and make home visits on selected patients. In addition, students also make field trips with public health nurses, sanitary inspectors and Vocational counselors.

### *Prev. Med. 104. Applied Preventive Medicine and Rehabilitation II. (16 hours)*

Fourth year. Conferences on Home Survey Reports. Each student in his third year has been assigned a patient of the Medical Care Clinic whom he follows by visits to the home. He reports his observations at a small group conference organized jointly by the Department of Preventive Medicine and Psychiatry. Consideration is given to the family inter-relations, the economic situation, the dietary habits, the sanitation, and the physical characteristics of the home as they influence the patient's disease, and how preventive and rehabilitative techniques may modify these facets.

Rehabilitation Conference. Students present patients whose disabilities offer problems concerned with the provision of suitable care following discharge. An appraisal of the home and family may be made by a student visit prior to the conference.



## PSYCHIATRY

*Professors:* \*FINESINGER (HEAD OF DEPARTMENT), BRODY, FARINHOLT, GRENELL, LOURIE, REID, WAELDER-HALL.

*Associate Professors:* ANDERSON, M. GUTTMACHER, HARTZ, B. POPE, H. ROBINSON, WILL, I. YOUNG.

*Assistant Professors:* BAGLEY, BAND, BIERMAN, ELGIN, HUFFER, KLEE, LISANSKY, MURDOCK, SCHULTZ, WEINTRAUB; AND STAFF.

### *Psy. 101. Introduction to Psychiatry. (92 hours)*

First year. This course is devoted to a consideration of human relations as applied to the practice of medicine. The topics dealt with include personality development, reactions to stress, and situational and social factors in disease. The emphasis is upon observing, understanding, and evaluating the personal and social factors in the disease process, in treatment, and in prevention.

### *Psy. 102. Psychopathology. (48 hours)*

Second year. Emphasis is placed on methods of examining psychiatric patients. The discussions center about psychopathology, as it operates in disease and in the treatment process.

### *Psy. 103. Psychiatric Clinical Clerkship. (100 hours)*

Third year. Students in groups of 7 or 8 work as clinical clerks in the Psychiatric Institute for a three week period. Each student is assigned to an Assistant Resident who acts as a preceptor. As patients are admitted, they are assigned to a student who assumes responsibility for the examination and the history. In the outpatient department, the students see all patients applying for treatment either on an emergency basis or by appointment. During the evenings two students take "call" with an Assistant Resident.

### *Psy. 104. Advanced Psychiatric Clinical Clerkship. (110 hours)*

Fourth year. A clinical clerkship is offered in the wards of the University Hospital for one month. Emphasis is placed on diagnosis, methods of interviewing, methods of developing and managing a therapeutic doctor-patient relationship, and carrying out psychotherapy. Two afternoons each week are spent treating patients under supervision in the Comprehensive Clinic. An 8 hour seminar on psychosomatic problems is given.

## RADIOLOGY

*Professors:* DENNIS (HEAD OF DEPARTMENT), DAVIDSON.

*Associate Professor:* BLOEDORN.

*Assistant Professors:* BOUDREAU, DANA, DE CARLO; AND STAFF

### *Rad. 101. Radiologic Anatomy. (12 hours)*

First year, first semester. A correlated course is given in conjunction with the Department of Anatomy. This course consists of nine lecture-demonstrations devoted to the skull, chest, gastrointestinal tract, genitourinary tract, the spine and joints. Not only is the normal anatomy shown, but the radiologic aspects of a few pathologic processes are also shown for emphasis and correlation.

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\*Deceased



## *Radiology, Surgery*

### *Rad. 102. Radiologic Physiology. (3 hours)*

First year, second semester. In conjunction with the Department of Physiology, students in groups of four, spend one afternoon in the Department of Radiology where they observe fluoroscopically respiratory and gastrointestinal physiology. An introduction is also given to the use of contrast material, as it is used in radiology, to demonstrate the function and structure of various portions of the human body.

### *Rad. 103. Radiation Therapy Orientation. (5 hours)*

Third year. This series of five lectures is given to the whole third year class to present the basis of radiation therapy. In the first lecture the basic principles of radiotherapy and the present and future role of radiotherapy of malignant tumors is presented. The second lecture is devoted to the principles of radiobiology, radiophysics and radiation protection. The last three lectures deal with groups of tumors that are curable with ionizing radiation with a discussion of the principle indications, management and results of radiotherapy in each of these groups.

### *Rad. 104. Radiologic Orientation I. (28 hours)*

Third year. A series of lecture-demonstrations are given to small groups of students at the Baltimore City Hospital, Mercy Hospital and the University Hospital. An attempt is made to cover the roentgen studies of all systems of the body with demonstrations of the more common lesions encountered in each system. At Baltimore City Hospital, twelve lecture-demonstrations are given on the chest, the genitourinary tract and metabolic bone diseases, while at Mercy Hospital, three hours are devoted to the arthritides and bone tumors. At the University Hospital, additional lecture-demonstrations are devoted to the lungs, gastrointestinal tract, heart and skull.

### *Rad. 105. Radiologic Orientation II. (60 hours)*

Fourth year. Students, in groups of four or five, are assigned full time for a period of two weeks to the Diagnostic Division of the Department of Radiology. These students are broken into smaller groups of two or three and spend alternate mornings in the reading rooms with the staff radiologists and in the fluoroscopic rooms observing chest and gastrointestinal fluoroscopy. Reading assignments are made and the students spend the afternoons studying a select group of teaching cases which are correlated with the reading assignments. They attend the daily departmental diagnostic conferences as well as the joint conferences held with the Departments of Pediatrics and the Divisions of General Surgery and Thoracic Surgery.

## SURGERY

*Professors:* BUXTON (HEAD OF DEPARTMENT), ARNOLD, BLANCHARD, C. R. EDWARDS, HULL, KITLOWSKI, O'ROURK, PESSAGNO, ROGERS, VOSHELL, YEAGER AND YOUNG.

*Associate Professors:* COWLEY, FOX, GARLICK, KAYSER.

*Assistant Professors:* T. R. ADAMS, ARMSTRONG, BONGARDT, BOWIE, BRAGER, GOVATOS, HAINES, LINBERG, MAYS, SCARBOROUGH, SCHWARTZ, SIWINSKI, THOMPSON, WILDER, AND STAFF.

### *Surg. 101. Principles of Surgery. (48 hours)*

Third year. Three one hour periods are devoted each week to a discussion of fundamental surgical problems and a systematic description of general surgical disease. These

discussions are designed as introductions to and preparation for detailed reading in standard textbooks, current periodicals and monographs in surgery.

*Surg. 101a. Surgical Specialty Lectures. (48 hours)*

Third year. This is a continuation of Surg. 101, wherein the surgical discussions center around the problems of Otorhinolaryngology, Thoracic Surgery, Neuro-surgery, Orthopedic Surgery and Urologic Surgery.

*Surg. 103. Outpatient Clerkship in Surgery. (286 hours)*

Third year. One-fourth of the third year class is assigned to the Department of Surgery each quarter of the school year. Students are assigned to the Outpatient Department for the examination and supervised care of patients in the General Surgical, Orthopedic, Urologic and ENT Clinics. One-third of this quarter is spent at Mercy Hospital. Students are assigned in rotation as clinical clerks at night in the Emergency Room.

### SUMMER FELLOWSHIPS

Fellowships are available each summer for a period of ten weeks in the Surgical Research Laboratory. Both sophomore and junior students are eligible. Investigative problems related to these services will be undertaken under the guidance of members of the Surgical Staff.

### *Division of General Surgery*

*Doctors:* BUXTON, C. R. EDWARDS, HULL, PESSAGNO, YEAGER, ADAMS, BOWIE, GOVATOS, SIWINSKI, BONGARDT, BRAGER, SCARBOROUGH, AND STAFF.

*Surg. 103a.*

This is the student's introduction to an office-type surgical practice in that he undertakes the supervised care of patients in the Surgical Dispensary. General discussions related to problems presented by these patients are given by the Surgical Staff. The introduction to specific surgical technics in examination and treatment of patients is undertaken. This course is given at both University and Mercy Hospitals. Audio-visual instruction is given. Students are assigned to the Emergency Room during this period.

*Surg. 104a.*

Senior students are assigned to patients on the surgical wards in the University Hospital. They are responsible for the physical examination, history and certain laboratory tests as required by the patient's disease. They participate in the active care and treatment of patients and in addition, have specific assignments to the Emergency Room.

### *Division of Neurosurgery*

*Doctors:* ARNOLD, THOMPSON, AND STAFF.

*Surg. 104b.*

Senior students assigned to this division act in the capacity of student interns. The students are closely integrated with the House Staff and are assigned sufficient patients

## *Surgery*

so that comprehensive experience in the diagnosis and treatment of neurosurgical problems is obtained. Instruction is through ward rounds and informal discussions. Wednesday mornings are devoted to clinical, x-ray and neuropathological conferences.

### *Division of Orthopedic Surgery*

*Doctors:* VOSHALL, ROGERS, TANSEY, WILDER AND STAFF.

#### *Surg. 103c.*

Junior students are assigned to this division in the Outpatient Departments at University and Mercy Hospitals. Patients are seen for diagnosis and postoperative care. Instruction is given in the application of plaster casts and in the ambulatory management of orthopedic problems. Occasion is given to instruction in the Physical Therapy of patients with orthopedic disease.

#### *Surg. 104c.*

Senior students are assigned patients both on the surgical wards and in the Emergency Room. They participate in the care of these patients, and are given instruction in the application of traction and plaster casts. Frequent ward rounds are held at the Kernan Hospital for Crippled Children, where an Amputee Training Program is active.

### *Division of Urological Surgery*

*Doctors:* YOUNG, MAYS, HAINES AND STAFF.

#### *Surg. 103d.*

Instruction is given to junior students in this division in the diagnosis of urologic disease of both men and women. The general aspects of instrumentation are discussed and the roentgenologic evidence of urologic disease is emphasized.

#### *Surg. 104d.*

Students are assigned patients in the University Hospital wards. Further instruction is given in diagnosis and instrumentation of these patients and in the x-ray diagnosis of urologic disease.

### *Division of Otolaryngology*

*Doctors:* BLANCHARD, O'ROURK, FOX, HAASE, GERLACH, CROSS, MICHAEL AND STAFF.

*Mercy Hospital:* DRS. SCHWARTZ, ISAACS AND KAYSER.

#### *Surg. 103e.*

In a series of six periods of four hours, in the Outpatient Otolaryngology Clinic, junior students are individually instructed in the techniques of the examination of the ears, nose and throat. One hour of basic audiological technique is presented to each group by Mr. Bertram Thorne, one hour of introductory speech therapy is presented by Mr. John Carter.

*Surg. 104e.*

An advanced period of elective study with emphasis on diagnosis and treatment is available to approximately 18 senior students each year as an alternate elective surgical specialty for one month's duration. In the Outpatient Department, diagnostic problems are presented at conferences with the staff department head twice each week and thoroughly reviewed in the light of current practice. Two sessions each week are available to the student to assist in the operating room and two sessions each week are available in the bronchoesophagology clinic. Each student is responsible for evening emergency calls on Ear, Nose and Throat and examination of the patients admitted on the service. Daily ward rounds are carried out with the students.

*Division of Thoracic Surgery*

*Doctors:* COWLEY AND STAFF.

*Surg. 104f.*

Senior students participate in the care of these patients in the operating rooms and on the wards of University, Mercy and Mt. Wilson Hospitals. In addition, they receive instruction in diagnostic bronchoscopy, esophagoscopy, cardiac catheterization, angiocardigraphy and pulmonary function studies.

MEDICAL LIBRARY

HOWARD ROVELSTAD, A.B., M.A., B.S.L.S. . . . . *Director of Libraries and Professor  
of Library Science*

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IDA MARIAN ROBINSON, A.B., B.S.L.S. . . . . *Librarian and Associate Professor  
of Library Science*

HILDA E. MOORE, A.B., A.B.L.S. . . . . *Associate Librarian and  
Assistant Professor of Library Science*

FLORENCE R. KIRK. . . . . *Reference Librarian*

MARJORIE E. FLUCK, B.S., IN ED. . . . . *Cataloguer*

EDITH M. COYLE, A.B., A.B.L.S., M.A. . . . . *Serials Librarian*

SARAH L. ATKINS. . . . . *Library Assistant*

MARIE MARTIN. . . . . *Library Assistant*

JACQUELINE B. CLEM. . . . . *Assistant to the Librarian*

PATRICIA J. TERZI. . . . . *Assistant to the Cataloguers*

ART AS APPLIED TO MEDICINE

WILLIAM JOHN T. AUSTIN. . . . . *Supervisor of Medical Art*

CARL DAME CLARKE. . . . . *Associate Professor of Art as Applied to Medicine*

THOMAS M. STEVENSON, JR. . . . . *Instructor in Art as Applied to Medicine*

This Department is maintained to supply visual teaching aids in the form of lantern slides, graphic charts, medical drawings and a limited number of motion pictures showing clinical and surgical techniques.



## POSTGRADUATE COURSES

### COMMITTEE ON POSTGRADUATE STUDIES

HOWARD M. BUBERT, *Chairman and Director*

DIETRICH C. SMITH, *First Vice-Chairman*

LOUIS A. M. KRAUSE, *Second Vice-Chairman*

ELIZABETH B. CARROLL, *Executive Secretary*

J. EDMUND BRADLEY	ARTHUR L. HASKINS	MILTON S. SACKS
OTTO C. BRANTIGAN	LAURISTON L. KEOWN	E. RODERICK SHIPLEY
W. CARL EBELING, III	JOHN C. KRANTZ, JR.	WILLIAM H. TRIPLETT
FRANK H. J. FIGGE	ROBERT T. PARKER	ALLEN F. VOSHELL
JACOB E. FINESINGER	J. MORRIS REESE	JOHN A. WAGNER
LADISLAUS GRAPSKI	HARRY M. ROBINSON, JR.	THEODORE E. WOODWARD

WILLIAM S. STONE, *Dean, Ex-officio*

The following intramural postgraduate courses are given:

**GENERAL ANATOMY.** Designed to prepare candidates for the examination of the American Board of General Surgery and Surgical Specialists. There is no strict rule governing either the content or duration of the course. Students may dissect a complete cadaver or any particular region in which they may be interested. Tuition is arranged according to registration content and duration.

**CLINICAL ANATOMY.** Designed to prepare candidates for the examination in Anatomy of the American Board of Surgery. This is a ninety-hour course (3 hours a day, 2 days a week for 15 weeks) given in conjunction with the regular sophomore medical course. Tuition is \$150.00.

**NEUROPATHOLOGY.** Designed to aid in meeting the requirements of the specialty boards in neurological sciences, and covers basic studies in diseases of the central nervous system. Duration is six months, full time. Tuition is \$200.00 plus \$10.00 laboratory fee.

**GYNECOLOGY, ONCOLOGY AND FEMALE UROLOGY.** This is a REVIEW designed primarily for the general practitioner. Students attend lectures, ward rounds and clinics and OBSERVE operations. Full time for ten weeks. Tuition is \$125.00.

**GYNECOLOGY AND OBSTETRICS.** This is a REVIEW designed for the general practitioner. Students attend lectures, ward rounds and clinics, and OBSERVE operations and deliveries. Full time for twelve weeks. Tuition is \$150.00.

**BASIC SCIENCES AS THEY APPLY TO THE PRACTICE OF MEDICINE.** Designed to familiarize students with the advances in basic sciences during recent years. The course consists of 21 periods of 2 hours each, once a week. Begins early in January. Tuition is \$50.00.



**INDUSTRIAL MEDICINE AND OCCUPATIONAL HEALTH.** Two day course, October 1 and 8, 1959. Designed for physicians, nurses, industrial engineers and personnel managers.

Inquiries on any of the above courses should be addressed to the Postgraduate Committee, University of Maryland School of Medicine, Baltimore 1, Maryland.

### LECTURERS IN POSTGRADUATE MEDICINE

Thurston R. Adams	William L. Fearing	Herbert E. Reifschneider
Marie A. Andersch	Frederick P. Ferguson	Dexter L. Reimann
James G. Arnold, Jr.	Frank H. J. Figge	Harry M. Robinson, Jr.
Samuel P. Bessman	Jacob E. Finesinger	Harry M. Robinson, Sr.
Fernando G. Bloedorn	A. H. Finkelstein	Raymond C. V. Robinson
Francis J. Borges	Russell S. Fisher	Guilford Rudolph
Harry C. Bowie	Albert E. Goldstein	Milton S. Sacks
J. Edmund Bradley	Sheldon Greisman	John E. Savage
Otto C. Brantigan	Lewis P. Gundry	Leonard Scherlis
George H. Brouillet	Nathan B. Herman	Sidney Scherlis
Howard M. Bubert	Harry C. Hull	John Stauffer
Raymond M. Burgison	D. Frank Kaltreider	William B. Settle
T. Nelson Carey	Theodore Kardash	Dietrich C. Smith
Robert F. Chenowith	Vernon E. Krahrl	Merrill Snyder
Thomas Connor	John C. Krantz, Jr.	Melchijah Spragins
Ernest I. Cornbrooks, Jr.	Louis A. M. Krause	Edwin H. Stewart, Jr.
Edward F. Cotter	Arnold F. Lavenstein	W. Houston Toulson
R. Adams Cowley	C. Edward Leach	Allen Fiske Voshell
Richard J. Cross, Jr.	Ephraim T. Lisansky	John A. Wagner
John DeCarlo, Jr.	William S. Love, Jr.	Wallace Walker
John M. Dennis	William V. Lovitt, Jr.	Milton J. Wilder
William K. Diehl	Hugh B. McNally	Walter D. Wise
Everett S. Diggs	Howard B. Mays	Charles S. Wisseman, Jr.
D. McClelland Dixon	Samuel Morrison	Henry L. Wollenweber
Louis H. Douglass	Robert H. Oster	Theodore E. Woodward
J. Sheldon Eastland	Frank J. Otenasek	Joseph B. Workman
W. Carl Ebeling, III	Ross Z. Pierpont	Robert B. Wright
Charles Reid Edwards	Maurice C. Pincoffs	George H. Yeager
Monte Edwards	J. Morris Reese	

# FIRST YEAR SCHEDULE

First Semester, September 11, 1958 to January 24, 1959

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9:00 to 10:00	Histology and Embryology		1st 3 lectures Orientation 9:00-9:30 A.H.			Man and His Environment C.H. 9:00-10:50
10:00 to 11:00	Neuro-Anatomy	Neuro-Anatomy A.H.		Neuro-Anatomy A.H.	Histology and Embryology B2 Lab.	
11:00 to 12:00	B2 Lab.		Histology and Embryology 9:00-12:00 B2 Lab.			Psychiatry Room 171 P.I. 11:15-1:00
12:00 to 1:00			LUNCH			
1:00 to 2:00	Gross Anatomy Lecture A.H.	Gross Anatomy Conference A.H.		Gross Anatomy Lecture A.H.	Gross Anatomy Conference A.H.	
2:00 to 5:00	Gross Anatomy Lab. B1 Lab.	Gross Anatomy Lab. B1 Lab. Neuro-Anatomy	FREE	Gross Anatomy Lab. B1 Lab. Neuro-Anatomy	Gross Anatomy Lab. B1 Lab.	

A.H.—Anatomical Hall, Upper Hall, 522 West Lombard St.

B1—1st floor, Bressler Bldg.—Laboratory—29 S. Greene St.

B2—2nd floor, Bressler Bldg.—Laboratory—29 S. Greene St.

C.H.—Chemical Hall, Lower Hall, 522 West Lombard St.

P.I.—Psychiatric Institute, 643 Redwood St.

# FIRST YEAR SCHEDULE

Second Semester, January 26, to May 29, 1959

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9:00 to 9:50	Biochem. Lect. Adm. 1	Biochem. Lect. Adm. 1	Biochem. Lect. Adm. 1	Biochem. Lect. Adm. 1	Biochem. Lect. Adm. 1	Man and His Environment C.H. 9:00 - 10:50
10:00 to 10:50	Physiol. Lect. B2	Biochem. Conf. Adm. 1	Physiol. Lect. B2	Biochem. Conf. Adm. 1	Physiol. Lect. B2	
11:00 to 11:50	Physiol. Conf. B2	Physiol. Lect. B2	Physiol. Conf. B2	Physiol. Lect. B2	Biostatistics Adm. 1	Psychiatry Room 171 P.I. 11:15 - 1:00
12:00 to 1:00	LUNCH					
1:00 to 5:00	Sect. A Physiol. Lab. B4 Lab. 1:00 - 5:00 Sect. B Psychiatry Room 171 P.I. 1:00 - 2:00 Biochem. 3rd floor 31 S. Greene St. 2:00 - 5:00	Sect. B Physiol. Lab. B4 Lab. 1:00 - 5:00 Sect. A Psychiatry Room 171 P.I. 1:00 - 2:00 Biochem. 3rd floor 31 S. Greene St. 2:00 - 5:00	FREE	Sect. A Physiol. Lab. B4 Lab. 1:00 - 5:00 Sect. B Psychiatry Room 171 P.I. 1:00 - 2:00 Biochem. 3rd floor 31 S. Greene St. 2:00 - 5:00	Sect. B Physiol. Lab. B4 Lab. 1:00 - 5:00 Sect. A Psychiatry Room 171 P.I. 1:00 - 2:00 Biochem. 3rd floor 31 S. Greene St. 2:00 - 5:00	

Adm. 1—1st floor, Administration Bldg.—Lecture Hall—520 W. Lombard St.

B2—2nd floor, Bressler Bldg.—Lecture Hall—29 S. Greene St.

B4—4th floor, Bressler Bldg.—Laboratory—29 S. Greene St.

C.H.—Chemical Hall, Lower Hall—522 W. Lombard St.

P.I.—Psychiatric Institute, 643 Redwood St.

# SOPHOMORE SCHEDULE

First Semester, September 11, 1958 to January 24, 1959

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30 to 9:20		Pathology Lect. C.H.	Pharmacology Lect. B2			
9:30 to 10:20	Psychiatry P.I. 171 9:00-10:20	Microbiology	Microbiology	Microbiology	Microbiology	Correlative Medicine P.I. 171 9:00 - 11:00
10:30 to 11:20	Pharmacol. Lect. B2					
11:30 to 12:20	Pathology Lect. C.H.					
12:30 to 1:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
1:00 to 2:00	Pathology Lect. C.H.	Clin. Path. Lect. B2	Pathology Lect. C.H.	Sect. A Pharmacol. Lect. B2 FREE	Sect. A FREE Sect. B Pharmacol. Lect. B2	
2:00 to 5:00	Pathology Lab. 2nd floor 31 S. Greene St.	Clin. Path. Lab. B5	Pathology Lab. 2nd floor 31 S. Greene St.	Sect. A Pharmacol. Lab. Sect. B FREE	Sect. A FREE Sect. B Pharmacol. Lab.	

B2—2nd Floor Bressler Building  
B5—5th Floor Bressler Building

P.I.—Psychiatric Institute  
C.H.—Chemical Hall

# SOPHOMORE SCHEDULE

Second Semester, January 26 to May 29, 1959

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30				Correlative Medicine G.W. Hall 9:00-11:00		
9:00-9:50	Pathology Lecture and Pathology Lab. 2nd floor 31 S. Greene St.	Pathology Lecture and Pathology Lab. 2nd floor 31 S. Greene St.	Clinical Anatomy 8:30-9:30 C.H.		Preventive Medicine B2	FREE
10:00-10:50			Pharmacol. Lect. 11:30-12:30 Adm. 1		Pharmacol. Lecture C.H.	
11:00-12:30					Psychiatry 11:30-1:00 P.L. 171	
12:00-1:00	LUNCH	LUNCH	LUNCH	Pharmacology Lect. B2	LUNCH	
1:00-1:50	Neurology C.H.	Clin. Path. Lect. B2				
2:00-5:00	Clinical Anatomy 2:00-3:00 B2	Clin. Path. Lab. 2nd floor 31 S. Greene St.	Pathology Lab. 2nd floor 31 S. Greene St. 1:30-5:00	Sect. A. Pharmacology Lab.	Sect. B Physical Diagnosis	Sect. A

P.I.—Psychiatric Institute  
C.H.—Chemical Hall

B-2—2nd floor, Bressler Building  
B-5—5th floor, Bressler Building

G.W. Hall—Eightth floor, University Hospital



# JUNIOR SCHEDULE

## September 11, 1958 - June 6, 1959

Group	Surgery	Medicine 1	Pediatrics	Ob.-Gyn.	Psychiatry	Medicine 2
1						
2	Sept. 11-Nov. 5, 1958	Nov. 6-Jan. 21, 1959	Jan. 22-Mar. 4, 1959	Mar. 5-Apr. 22, 1959	Apr. 23-May 13, 1959	May 14-June 5, 1959
3						
4			Apr. 23-June 5, 1959	Jan. 22-Mar. 4, 1959	Mar. 5-Mar. 26, 1959	Mar. 31-Apr. 22, 1959
5	Nov. 6-Jan. 21, 1959	Sept. 11-Nov. 5, 1958	Mar. 5-Apr. 22, 1959	Apr. 23-June 5, 1959	Jan. 22-Feb. 11, 1959	Feb. 12-Mar. 4, 1959
6					Feb. 12-Mar. 4, 1959	Jan. 22-Feb. 11, 1959
7					Dec. 1-Dec. 23, 1958	Jan. 5-Jan. 21, 1959
8	Jan. 22-Mar. 26, 1959	Mar. 31-June 5, 1959	Sept. 11-Oct. 20, 1958	Oct. 21-Nov. 25, 1958	Jan. 5-Jan. 21, 1959	Dec. 1-Dec. 23, 1958
9					Oct. 21-Nov. 5, 1958	Nov. 6-Nov. 25, 1958
10			Dec. 1-Jan. 21, 1959	Sept. 11-Oct. 20, 1958	Nov. 6-Nov. 25, 1958	Oct. 21-Nov. 5, 1958
11	Mar. 31-June 5, 1959	Jan. 22-Mar. 26, 1959	Oct. 21-Nov. 25, 1958	Dec. 1-Jan. 21, 1959	Sept. 11-Oct. 1, 1958	Oct. 2-Oct. 20, 1958
12					Oct. 2-Oct. 20, 1958	Sept. 11-Oct. 1, 1958

# SENIOR SCHEDULE

## 1958 - 1959

Group	Sept. 11- Oct. 8, 1958	Oct. 9-Nov. 5	Nov. 6-Dec. 3	Dec. 4, 1958 Jan. 12, 1959	Jan. 13- Feb. 4	Feb. 5- Mar. 4	Mar. 5- April 8	April 9- May 6	May 7- June 2, 1959
1	Med. 1	Med. 2	Elective	Psy.	Ped.	Ob.-Gyn.	Surg. 1	Surg. 2	ARO*
2	Elective	Med. 1	Med. 2	Ob.-Gyn.	Psy.	Ped.	ARO*	Surg. 1	Surg. 2
3	Med. 2	Elective	Med. 1	Ped.	Ob.-Gyn.	Psy.	Surg. 2	ARO*	Surg. 1
4	Surg. 1	Surg. 2	ARO*	Med. 1	Med. 2	Elective	Psy.	Ped.	Ob.-Gyn.
5	ARO*	Surg. 1	Sur. 2	Elective	Med. 1	Med. 2	Ob.-Gyn.	Psy.	Ped.
6	Surg. 2	ARO*	Surg. 1	Med. 2	Elective	Med. 1	Ped.	Ob.-Gyn.	Psy.
7	Psy.	Ped.	Ob.-Gyn.	Surg. 1	Surg. 2	ARO*	Med. 1	Med. 2	Elective
8	Ob.-Gyn.	Psy.	Ped.	ARO*	Surg. 1	Surg. 2	Elective	Med. 1	Med. 2
9	Ped.	Ob.-Gyn.	Psy.	Surg. 2	ARO*	Surg. 1	Med. 2	Elective	Med. 1

\*ARO—Anesthesiology, Radiology, Ophthalmology.



## MATRICULANTS

SENIOR CLASS, SEPTEMBER 12, 1957 TO JUNE 7, 1958

Alexander, John Thomas, <i>Brigham Young University</i> .....	Arizona
Aton, James Keyes, B.A., <i>Emory University</i> , 1954.....	Florida
Bartlett, William George, <i>University of Maryland</i> .....	Maryland
Baumgardner, George Robert, <i>University of Maryland</i> .....	Maryland
Berg, Elliott Morton, <i>University of Maryland</i> .....	Maryland
Berman, Maurice Jerrold, B.S., <i>University of Maryland</i> , 1953.....	Maryland
Bloom, Gerald Edward, <i>Cornell University</i> .....	Maryland
Brager, Stuart Harmon, B.S., <i>University of Maryland</i> , 1954.....	Maryland
Bronstein, Howard Daniel, <i>University of Maryland</i> .....	Maryland
Burke, George James, B.S., <i>University of Maryland</i> , 1954.....	Maryland
Caplan, Raymond Frank, <i>University of Maryland</i> .....	Maryland
Chun, Gayne, B.A., <i>Boston University</i> , 1951; M.S., <i>University of Wisconsin</i> , 1953 .....	Hawaii
Clark, Gaylord Lee, Jr., B.A., <i>Johns Hopkins University</i> , 1953; <i>Stanford University</i> .....	Maryland
Cope, David Arthur, B.A., <i>Lafayette College</i> , 1934.....	Pennsylvania
Cranley, Robert Emmet, <i>University of Maryland</i> .....	New Jersey
Curtis, Bruce Nelson, B.A., <i>Brigham Young University</i> , 1954.....	Arizona
Cushner, Gilbert Bernard, <i>Johns Hopkins University</i> .....	Maryland
Damm, Robert Lee, B.S., <i>University of Maryland</i> , 1954.....	Maryland
Diener, Ronald Lee, <i>University of Maryland</i> .....	Maryland
Donovan, Raymond Joseph, Jr., B.A., <i>Saint Peter's College</i> , 1954....	New Jersey
Economon, Joanne Winslow, <i>George Washington University</i> .....	Virginia
Erickson, Richard James, B.S., <i>Maryville College</i> , 1954.....	New Jersey
Farb, Stanley Norman, <i>Johns Hopkins University</i> .....	Maryland
Filar, Alfred Anthony, Jr., B.S., <i>Loyola College</i> , 1954.....	Maryland
Fishkin, Harold Larry, <i>University of Maryland</i> .....	Maryland
Fitch, Harry John, B.S., <i>University of Maryland</i> , 1951.....	Maryland
Flynn, Richard Rowan, <i>University of Utah</i> .....	Utah
Friedlander, Harvey Lee, <i>University of Maryland</i> .....	Maryland
Goldberg, Neil Morton, <i>University of Maryland</i> .....	Maryland
Goldgeier, Sheldon, <i>University of Maryland</i> .....	Maryland
Goldstein, Barrett, A.B., <i>Johns Hopkins University</i> , 1954.....	Maryland
Greene, Frank Philip, <i>George Washington University</i> .....	Maryland
Hale, Meredith Saffell, B.S., <i>University of Maryland</i> , 1954.....	Maryland
Hall, William Popplein, III, B.S., <i>Union College</i> , 1954.....	Maryland
Harshey, John Simpson, A.B., <i>Catawba College</i> , 1954.....	Pennsylvania
Heck, Albert Frank, B.A., <i>Johns Hopkins University</i> .....	Maryland
Hicken, William Joseph, B.A., <i>Loyola College</i> , 1954.....	Maryland
Holmes, Arthur Clark Loper, <i>Wheaton College</i> .....	Pennsylvania
Johnson, Robert Harvey, Jr., B.A., <i>Duke University</i> , 1954.....	Maryland
Karpa, Jay Norman, <i>Johns Hopkins University</i> .....	Maryland
Keller, Richard Hubbard, <i>University of Utah</i> .....	Utah

## Matriculants

Kelsh, James Michael, A.B., <i>Columbia University, 1951; University of Maryland</i> .....	Maryland
Kelso, James Jude, <i>University of Maryland</i> .....	Maryland
Kriz, Frank Kenneth, Jr., <i>University of Maryland</i> .....	Maryland
Levin, Daniel Melvin, B.S., <i>University of Maryland, 1954</i> .....	Maryland
Levin, Howard Stanley, B.A., <i>Bowdoin College, 1954</i> .....	Maryland
Litofsky, Arthur, B.S., <i>University of Maryland, 1954</i> .....	Maryland
Macon, Robert Carpenter, B.S., <i>George Washington University, 1954</i>	District of Columbia
Manger, Donald Frederick, B.A., <i>Johns Hopkins University, 1954</i> .....	Maryland
Marshall, William John, Jr., B.S., <i>Muskingum College, 1954</i> .....	Ohio
McInerney, Gerald Timothy, A.B., <i>West Virginia University, 1954</i> ..	New York
Mead, Joseph Anthony, Jr., B.A., <i>Loyola College, 1954</i> .....	Maryland
Merendino, John Jerome, <i>University of Maryland</i> .....	Maryland
Moore, Ernest Eugene, A.B., <i>West Virginia University, 1954</i> .....	West Virginia
Mulvaney, Robert Bernard Joseph, B.A., <i>Seton Hall University, 1954</i> ..	New Jersey
Ortel, Roy Wade, B.A., <i>Gettysburg College, 1951</i> .....	Maryland
Orth, John Goedeke, B.S., <i>University of Maryland, 1954</i> .....	Maryland
Ottinger, Ayland Midgley, <i>University of Utah</i> .....	Utah
Parker, Charles Edwin, B.A., <i>University of Utah, 1953</i> .....	California
Perez-Santiago, Antonio, <i>University of Puerto Rico</i> .....	Puerto Rico
Potash, Michael Donald, <i>University of Maryland</i> .....	Maryland
Rauh, Jay Thomas, <i>University of Maryland</i> .....	Maryland
Reeder, Maurice Merrick, B.A., <i>Loyola College, 1954</i> .....	Maryland
Richmond, Lewis Hilliard, <i>University of Maryland</i> .....	Maryland
Robl, Robert Joseph, <i>University of Maryland</i> .....	Maryland
Roll, Harold, <i>University of Maryland</i> .....	Maryland
Sheppard, James Douglass, Jr., B.A., <i>University of Pennsylvania, 1954</i> ,	Maryland
Silberstein, Charles Eliot, A.B., <i>Western Maryland College, 1954</i> .....	Maryland
Sutton, Granger Gideon, Jr., B.S., <i>Massachusetts Institute of Technology, 1954</i> .....	District of Columbia
Swanson, Raymond Elmer, B.A., <i>Valparaiso University, 1951; M.S., Wayne University, 1954</i> .....	Illinois
Taylor, James Edgar, Jr., <i>University of Maryland</i> .....	Maryland
Tilles, Jerome, <i>University of Maryland</i> .....	Maryland
Tyer, James Harold, B.A., <i>University of Vermont &amp; State Agricultural College, 1954</i> .....	Connecticut
Ward, William Todd, <i>University of Maryland</i> .....	Maryland
Weyn, Adrian Saltzman, A.B., <i>Gettysburg College, 1954</i> .....	Maryland
Wolfe, Richard Louis, B.S., <i>William and Mary College, 1952</i> .....	Maryland
Zieve, Philip David, B.A., <i>Franklin and Marshall College, 1954</i> .....	Maryland
Zimmerman, James Benson, B.S., <i>University of Cincinnati, 1954</i> .....	Ohio

## SENIOR CLASS, SEPTEMBER 11, 1958 TO JUNE 6, 1959

Abramson, David Leavitt, B.S., <i>Loyola College, 1955</i> .....	Maryland
Adler, Wolfe Nathan, A.B., <i>Franklin and Marshall College, 1955</i> .....	Maryland



Ances, Isadore George, <i>University of Maryland</i> .....	Maryland
Ashburn, William Lee, A.B., <i>Western Maryland College, 1955</i> .....	Maryland
Asrael, Gerson, <i>University of Maryland</i> .....	Maryland
Broccoli, Anthony Carmino, A.B., <i>Province College, 1955</i> .....	Rhode Island
Brown, Fred David, <i>University of Florida</i> .....	Florida
Cadden, John Francis, <i>University of Maryland</i> .....	Maryland
Cohen, William Nathan, <i>Johns Hopkins University</i> .....	Maryland
Cole, Milton Burns, A.B., <i>George Washington (Columbia), 1952</i> ....	Maryland
Coursey, John William, B.S., <i>University of Maryland, 1951</i> .....	Georgia
Courts, Donald Earle, <i>Johns Hopkins University</i> .....	Maryland
Darr, Joseph Leo, <i>LaSalle College, 1955</i> .....	Maryland
Dawson, Robert Joseph, <i>University of Maryland</i> .....	Maryland
Demarco, Salvatore Joseph, A.B., <i>Loyola College, 1955</i> .....	Maryland
Dunseath, William James Ross, B.S., <i>U.S. Naval Academy, 1945</i> ....	Maryland
Durkan, James Paul, Jr., A.B., <i>Loyola College, 1955</i> .....	Maryland
Falls, William Franklin, Jr., B.S., <i>University of Maryland, 1955</i> ....	Maryland
Farley, Francis Edward, A.B., <i>Loyola College, 1952</i> .....	Maryland
Feinberg, Gilbert Nathan, <i>Johns Hopkins University</i> .....	Maryland
Felsenberg, Stanley Zvi, B.S., <i>University of Maryland, 1954</i> .....	Maryland
Fletcher, Charles Bryant, A.B., <i>Catholic University, 1952</i> .....	Maryland
Gallagher, George Cromwell, A.B., <i>Amherst College, 1955</i> ..	District of Columbia
Gardiner, Theodore David, A.B., <i>Duke University, 1952</i> .....	Maryland
Glazier, Jon Bennett, <i>University of Maryland</i> .....	Maryland
Green, Karl Mathias, B.S., <i>University of Maryland, 1955</i> .....	Maryland
Halle, Carlton Irwin, A.B., <i>Western Maryland, 1955</i> .....	Maryland
Hanauer, Franklin Alvan, A.B., <i>Harvard University, 1955</i> .....	Massachusetts
Holt, Robert Stewart, <i>University of Michigan</i> .....	West Virginia
Ingham, Roger Bowman, A.B., <i>Johns Hopkins University, 1954</i> .....	Indiana
Irwin, Robert Collier, A.B., <i>Georgetown University, 1953</i> .....	Maryland
Isaacs, Gilbert Herman, <i>University of Maryland</i> .....	Maryland
James, Robert Truxton, A.B., <i>Princeton University, 1955</i> .....	Maryland
Jarboe, James Patrick, <i>University of Maryland</i> .....	Maryland
Jasion, Arthur Raymond, <i>University of Maryland</i> .....	Maryland
Jones, Arthur Ford, Jr., <i>University of Maryland</i> .....	Maryland
Just-Viera, Jorge Orlando, B.S., <i>University of Puerto Rico, 1955</i> ....	Puerto Rico
King, August Daniel, Jr., <i>University of Maryland</i> .....	Maryland
Kirsh, Marvin Manes, A.B., <i>Johns Hopkins University, 1955</i> .....	Maryland
Kleinman, Martin Samuel, <i>University of Maryland</i> .....	Maryland
Koukoulas, Paul George, A.B., <i>Western Maryland College, 1955</i> ....	Maryland
Kraut, William, A.B., <i>Brown University, 1955</i> .....	New Jersey
Lang, Richard Collison, <i>University of Maryland</i> .....	Maryland
Lewis, Donald Ryan, <i>University of Maryland</i> .....	Maryland
Lewis, George Needham, III, B.S., <i>Loyola College, 1955</i> .....	Maryland
Lewis, Jack Covington, <i>University of Maryland</i> .....	Maryland
Luban, Arthur, A.B., <i>Colorado University, 1955</i> .....	New Jersey
Mailman, Charles Jacob, B.A., <i>Franklin and Marshall College, 1954</i> ....	Maryland

## Matriculants

- Mainolfi, Ferdinand Gregory, B.S., *Loyola College*, 1955.....Maryland  
 McKay, Elmer Stewart, B.S., *Grove City College*, 1949;  
 M.S., *University of Michigan*, 1950.....Pennsylvania  
 McWilliams, Donald Reid, *University of Maryland*.....Maryland  
 Mercer, Philip Werner, *Wheaton College*.....North Carolina  
 Morales-Morales, Jose, B.S., *University of Puerto Rico*, 1955.....Puerto Rico  
 Mower, Morton Maimon, A.B., *Johns Hopkins University*, 1955.....Maryland  
 Natale, Ralph Donald, A.B., *Johns Hopkins University*, 1955.....Maryland  
 Nataro, Joseph Francis, *University of Maryland*.....New Jersey  
 Otto, Joseph Rollin, Jr., A.B., *Princeton University*, 1955.....Maryland  
 Pace, Nicholas Anthony, B.S., *Davis and Elkins College*, 1955.....New York  
 Pereyo Jose A., *University of Puerto Rico*.....Puerto Rico  
 Perras, David Arthur, A.B., *Harvard University*, 1955.....Massachusetts  
 Pinkner, Lawrence David, *John Hopkins University*.....Maryland  
 Poffenberger, Arthur Lee, A.B., *Virginia Military Institute*, 1955..West Virginia  
 Reda, Mario Joseph, A.B., *Loyola College*, 1955.....Maryland  
 Rhea, William Edward, B.S., *Georgetown University*, 1955.....West Virginia  
 Ribner, Herbert, A.B., *Yeshiva University*, 1938.....New York  
 Roig-Calderon, Ramon Fernando, A.B., *University of Puerto Rico*, 1955.....Puerto Rico  
 Rubenstein, Howard Jack, A.B., *Lafayette College*, 1955.....New Jersey  
 Russo, Gerard Lee, A.B., *Loyola College*, 1955.....Indiana  
 Rybczynski, Carol Edmund, A.B., *Johns Hopkins University*, 1955...Maryland  
 Sax, Daniel Saul, A.B., *Johns Hopkins University*, 1955.....Maryland  
 Schocket, Stanley Sol, *University of Maryland*.....Maryland  
 Schroeder, John Raymond, B.S., *Loyola College*, 1955.....Maryland  
 Serpick, Arthur Allen, *University of Maryland*.....Maryland  
 Shields, Earl Francis, Jr., A.B., *Wittenberg College*, 1955.....Ohio  
 Snyder, Stanley Norton, *University of Maryland*.....Maryland  
 Solomon, Harvey Mark, B.S., *Rensselaer Polytechnic Institute*, 1955...Maryland  
 Stump, Beverly Jean, A.B., *Hiram College*, 1953.....Ohio  
 Thomas, Robert Johnson, A.B., *Washington and Lee University*, 1955..Maryland  
 Trail, Mervin Lee, A.B., *Bridgewater College*, 1955.....Maryland  
 Trotter, George Sedding, B.S., *University of Florida*, 1955.....Florida  
 Varner, Robert Irwin, *University of Maryland*.....Maryland  
 Wilhelmsen, Hans Richard, D.D.S., *University of Maryland*, 1955...Maryland  
 Young, Robert Hence, Jr., A.B., *Harvard University*, 1955.....Maryland

## JUNIOR CLASS, SEPTEMBER 11, 1958 TO JUNE 6, 1959

- Alevizatos, Aristides Christ, A.B., *Washington and Lee University*, 1956  
 Maryland  
 Awalt, Lawrence Fay, Jr., B.S., *Loyola College*, 1956.....Maryland  
 Bennett, John Joe, B.S., *Marshall College*, 1952.....Maryland  
 Berger, Leonard Paul, B.S., *Franklin and Marshall College*, 1956.....Maryland  
 Bertuch, Albert William, A.B., *Johns Hopkins University*, 1956.....Maryland

- Brecher, Herman, B.S., *University of Maryland*, 1953.....Maryland  
 Brenner, Arnold, *Loyola College*.....Maryland  
 Brown, Donald, B.S., *Brooklyn College*, 1951; M.A., *Brooklyn College*, 1953 .....New York  
 Cheeks, Sherrill Calvin, A.B., *Bridgewater College*, 1956.....Maryland  
 Cooke, Jeremy Vance, A.B., *Antioch College*, 1955.....Ohio  
 Damiano, Louis M., A.B., *Virginia Military Institute*, 1955.....Massachusetts  
 Datlow, Donald William, B.S., *George Washington University*, 1952;  
 M.S., *George Washington University*, 1954.....Maryland  
 Davidson, Maurice Morton, A.B., *Johns Hopkins University*, 1956....Maryland  
 DeVore, Paul Angus, B.S., *Georgetown University*, 1956....District of Columbia  
 Dunn, James Edwin, III, A.B., *Johns Hopkins University*, 1956...Pennsylvania  
 Farley, Hal Dee, *University of Utah*.....Utah  
 Fellner, Michael Josef, A.B., *Cornell University*, 1956.....Maryland  
 Feola, Benjamin John, A.B., *Wesleyan University*, 1955.....Connecticut  
 Ferciot, Thomas Nathaniel, III, B.S., *Loyola College*, 1956.....Maryland  
 Figueroa, Julio Enrique, B.S., *University of Puerto Rico*, 1956.....Puerto Rico  
 Glass, Alvin, B.S., *University of Maryland*, 1952.....Maryland  
 Goldstein, Burton Jack, B.S., *University of Maryland*, 1953.....Maryland  
 Grossman, Isaac William, B.S., *University of Maryland*, 1956.....Maryland  
 Hayden, Franklin Ross, *University of Maryland*.....Maryland  
 Heefner, Wilson Allen, A.B., *Gettysburg College*, 1956.....Pennsylvania  
 Henning, George Howard, *University of Maryland*.....Maryland  
 Hensala, John David, B.S., *Oregon State College*, 1954;  
 Ph.D., *University of Maryland*, 1959.....Oregon  
 Herman, Jerome Herbert, *University of Maryland*.....Maryland  
 Hill, Charles Earl, B.S., *Loyola College*, 1956.....Maryland  
 Honick, Lawrence Feld, B.S., *University of Maryland*, 1956.....Maryland  
 Huffington, Paul E., *Duke University*.....Maryland  
 James, Herbert Halpenny, Jr., B.S., *Montana State College*, 1951;  
 M.A., *Montana State University*, 1954.....Montana  
 Kesmodel, Charles Raymond, Jr., A.B., *Loyola College*, 1956.....Maryland  
 Keyser, Ronald Edward, A.B., *Lafayette College*, 1956.....Maryland  
 King, James Craig, B.S., *University of Wisconsin*, 1956.....New Jersey  
 Kurad, J. Ward, A.B., *Duke University*, 1956.....Maryland  
 LaMastra, Philip Michael, A.B., *Johns Hopkins University*, 1956.....Maryland  
 Laney, Cleatis Edward, A.B., *La Sierra College*, 1950.....Maryland  
 Latimer, William Eugene, B.S., *University of Utah*, 1956.....Utah  
 Lavy, Richard Cecil, B.S., *Franklin and Marshall College*, 1956.....Maryland  
 Leakan, Michael Hubers, A.B., *Loyola College*, 1956.....Maryland  
 Lesky, Walter Charles, B.S., *Loyola College*, 1955.....Maryland  
 Lott, Leymond Webster, B.S., *Loyola College*, 1956.....Maryland  
 Martello, Herbert Augustus, B.S., *University of Maryland*, 1952....Maryland  
 Messina, John Joseph, A.B., *Johns Hopkins University*, 1956.....Maryland  
 Meyer, Paul Donald, A.B., *University of Maryland*, 1955.....Maryland  
 Mills, Damon Foster, A.B., *Lafayette College*, 1956.....Maryland



## Matriculants

Morton, John Charles, A.B., <i>Western Maryland College</i> , 1956.....	Maryland
Myers, Allen Richard, A.B., <i>University of Pennsylvania</i> , 1956.....	Maryland
Normanly, Jerrod, A.B., <i>University of California, L.A.</i> , 1951; M.A., <i>University of California, L.A.</i> , 1956.....	California
Odend'hal, Fortune, Jr., B.S., <i>Franklin and Marshall College</i> , 1955....	Maryland
Passen, Selvin, <i>University of Maryland</i> .....	Maryland
Rapoport, Morton I., B.S., <i>Franklin and Marshall College</i> , 1956.....	Maryland
Reed, Jerome McDavid, B.S., <i>University of Maryland</i> , 1956.....	Maryland
Robinson, Neil Arnold, B.S., <i>Franklin and Marshall College</i> , 1956....	Maryland
Rogers, Clinton Lloyd, <i>West Virginia University</i> .....	West Virginia
Ross, Jerome, <i>University of Maryland</i> .....	Maryland
Salan, Jerry, A.B., <i>St. John's College</i> , 1954.....	Maryland
Sarni, Robert Peter, B.S., <i>University of Rhode Island</i> , 1953.....	Rhode Island
Saunders, Elijah, B.S., <i>Morgan State College</i> , 1956.....	Maryland
Saville, Bruce Geoffrey, A.B., <i>University of Virginia</i> , 1956.....	New Jersey
Shulman, Jonas Alvin, <i>Dartmouth College</i> .....	Maryland
Sigman, Bernice, <i>Mary Washington College</i> .....	Maryland
Silverstein, Emanuel Henry, <i>University of Maryland</i> .....	Maryland
Simor, Gabor, <i>University of Budapest</i> .....	Hungary
Smith, Charles Pearce, Jr., <i>University of Maryland</i> .....	Maryland
Smith, George Ignatius, Jr., A.B., <i>Washington and Lee University</i> , 1956 .....	Maryland
Smith, Morton Edward, <i>University of Maryland</i> .....	Maryland
Standiford, John Willard, A.B., <i>Johns Hopkins University</i> , 1956.....	Maryland
Stauffer, Martha Elizabeth, A.B., <i>Vassar College</i> , 1956.....	Maryland
Stofberg, Nathan, B.S., <i>University of Maryland</i> , 1956.....	Maryland
Stram, John Richard, <i>University of Maryland</i> .....	Massachusetts
Syphus, Merrill Tullis, B.S., <i>University of Utah</i> , 1955.....	Utah
Tenner, Michael Stephen, A.B., <i>Johns Hopkins University</i> , 1955.....	Maryland
Toulan, Theodore Francis, B.S., <i>Loyola College</i> , 1956.....	Maryland
Tritch, Harold Ray, Jr., A.B., <i>Washington Missionary College</i> , 1954..	Maryland
Volcjak, Charles Buddy, <i>University of Maryland</i> .....	Maryland
Wallace, John Widtsoe, B.S., <i>University of Utah</i> , 1953; M.A., <i>George Washington University</i> , 1955.....	Utah
White, Hubert Ruark, Jr., <i>University of Maryland</i> .....	Maryland
Yates, James Arthur, A.B., <i>Cornell University</i> , 1956.....	Pennsylvania
Young, Donald Lawrence, B.S., <i>University of Maryland</i> , 1956.....	Maryland
Young, Lois Adelaide, B.S., <i>Howard University</i> , 1956.....	Maryland
Zalis, Edwin G., A.B., <i>Johns Hopkins University</i> , 1956.....	Florida
Zanker, Theodore, A.B., <i>Bard College</i> , 1956.....	New York

## SOPHOMORE CLASS, SEPTEMBER 11, 1958 TO JUNE 6, 1959

Acosta-Otero, Andres A., <i>University of Puerto Rico</i> .....	Puerto Rico
Appleton, James R., A.B., <i>University of Iowa</i> , 1957.....	Iowa
Arbegast, Neil Richard, <i>University of Maryland</i> .....	Maryland
Bandy, George Eugene, <i>Bowling Green State University</i> .....	Ohio

- Battaile, Joseph Chandler, A.B., *Catholic University of America*, 1956  
Tennessee
- Berkey, Barry Robert, A.B., *Washington & Jefferson College*, 1957...Pennsylvania
- Berkow, Joseph William, A.B., *Johns Hopkins University*, 1957.....Maryland
- Berner, Carl Frederick, A.B., *Cornell University*, 1957.....Indiana
- Bing, Oscar Harold L., B.S., *Washington and Lee University*, 1956  
New York
- Blum, Myron Barry, A.B., *John Hopkins University*, 1957.....Maryland
- Boccuti, Anthony Russell, A.B., *Johns Hopkins University*, 1957.....Maryland
- Breslin, Thomas Grimmett, A.B., *Brown University*, 1957.....Rhode Island
- Brouillette, Joseph Nelson, D.D.S., *University of Maryland*, 1954.....Vermont
- Browell, John, Jr., B.S., *University of Maryland*, 1957.....Maryland
- Bulger, James Carroll, Jr., B.S., *University of Maryland*, 1950;  
D.D.S., *Baltimore College of Dental Surgery*, 1955.....Maryland
- Buschman, Milton Herbert, Jr., *University of Maryland*.....Maryland
- Cain, Ronald Louis, *University of Virginia*.....Maryland
- Carrel, Robert, A.B., *Gettysburg College*, 1951;  
D.D.S., *University of Maryland*, 1955.....Pennsylvania
- Cerda, James John, B.S., *University of Maryland*, 1957.....Maryland
- Clark, Francis Alden, Jr., *West Virginia University*.....West Virginia
- Clark, John Warden, A.B., *Brown University*, 1957.....Maryland
- Cloninger, Kenneth Lee, Jr., B.S., *Davidson College*, 1957.....North Carolina
- Delli-Pizzi, Gregory Michael, *University of Maryland*.....New York
- Devenport, Karl Warner, B.S., *University of Utah*, 1954.....Idaho
- Diacoyanis, John Nicholas, B.S., *University of Maryland*, 1955.....Maryland
- Dudney, William Henry, A.B., *University of Southern California*, 1957  
California
- Fall, Daniel Joseph, A.B., *Loyola College*, 1957.....Maryland
- Farrish, Grover Cleveland M., A.B., *Dartmouth College*, 1957...West Virginia
- Faw, Bernadine Carol, A.B., *Notre Dame College of Maryland*, 1957..Maryland
- Fink, Robert Allan, *Loyola College*.....Maryland
- Fleming, William Rudd, Jr., A.B., *Oberlin College*, 1957.....Maryland
- Forbes, Redwell Kay, A.B., *Duke University*, 1956.....North Carolina
- Fuchs, Peter Cornelius, B.S., *Georgetown University*, 1957.....Maryland
- Girod, Carlos E., *University of Puerto Rico*.....Puerto Rico
- Glass, Leonard Walter, B.S., *Franklin & Marshall College*, 1956; M.S.,  
*Rutgers University*, 1957.....Maryland
- Goodman, Jay Stanford, A.B., *Haverford College*, 1957.....Maryland
- Gutberlet, Ronald Louis, A.B., *Washington & Lee University*, 1956...Maryland
- Headings, James Jacob, A.B., *Juniata College*, 1946; B.S., *Pennsylvania  
State University*, 1956.....Pennsylvania
- Henck, Samuel Howard, A.B., *Eastern Nazarene College*, 1957.....Maryland
- Heymann, Robert Lawrence, A.B., *Loyola College*, 1957.....Maryland
- Hofkin, Gerald Alan, A.B., *Johns Hopkins University*, 1957.....Maryland
- Holz, Richard Gareth, A.B., *Loyola College*, 1957.....Maryland
- Hooper, James Lewis, *University of Maryland*.....Maryland



## Matriculants

- Ifarraguerri, Carlos Enrique, A.B., *University of Puerto Rico*, 1957.. Puerto Rico  
 Kempthorne, Gerald Conrad, B.S., *University of Wisconsin*, 1956;  
 M.S., 1957..... Wisconsin  
 Krome, Ronald Lee, B.S., *University of Maryland*, 1957..... Maryland  
 Kronthal, Alfred, B.S., *Loyola College*, 1957..... Maryland  
 Langeluttig, Harry Vernon, Jr., A.B., *Johns Hopkins University*,  
 1956 ..... Maryland  
 Lankford, Philip Woodson, B.S., *Juniata College*, 1957..... Pennsylvania  
 Law, William Rawlins, A.B., *Loyola College*, 1957 ..... Maryland  
 Leventhal, Marc Stephen, A.B., *Johns Hopkins University*,  
 1957 ..... District of Columbia  
 Light, John Paul, A.B., *Potomac State School*, 1950; B.A., *University*  
*of Pennsylvania*, 1952..... Maryland  
 Litrenta, David Edward, *Washington College*..... Maryland  
 Ludicke, Robert Ernest, B.S., *Mt. St. Mary's College*, 1957..... Maryland  
 Mahoney, Jerome Joseph, B.S., *Loyola College*, 1957..... Maryland  
 Marsh, John Rankin, A.B., *Western Maryland College*, 1957..... Maryland  
 McCarter, James F., *University of Maryland*..... Maryland  
 McGeoy, Thomas James, Jr., *University of South Carolina* ..... Maryland  
 Mehl, Roger Lee, A.B., *University of Washington*, 1957..... Washington  
 Merring, Leroy Lawrence, A.B., *Catholic University of America*,  
 1956 ..... Wyoming  
 Miller, Gerald Allan, B.S., *University of Maryland*, 1957..... Maryland  
 Morreels, Charles Louis, Jr., A.B., *Johns Hopkins University*, 1957... Maryland  
 Myerburg, Robert Jerome, *Johns Hopkins University*..... Maryland  
 Ortel, Rodney Linwood, A.B., *University of Pennsylvania*, 1957..... Maryland  
 Oster, Walter Filmore, B.S., *University of Maryland School of*  
*Pharmacy*, 1956 ..... Maryland  
 Ottenritter, Lewis Antoine, B.S., *Loyola College*, 1957..... Maryland  
 Pazourek, Lawrence Joseph, B.S., *Loyola College*, 1957..... Maryland  
 Presser, Clifton Conlyn, B.S., *Capital University*, 1957..... Maryland  
 Rasmussen, Kenneth Edward, A.B., *Sterling College*, 1945;  
 B. Div., *Pittsburgh Seminary*, 1950..... Maryland  
 Reeder, Paul Arlington, Jr., B.S., *Ohio State University*, 1955..... Ohio  
 Reeves, John Albert, *University of Maryland*..... Maryland  
 Riter, Earl Francis, Jr., A.B., *Yale University*, 1957..... Maryland  
 Rosen, David, B.S., *City College of New York*, 1955..... Connecticut  
 Sarles, Richard Milford, B.S., *Georgetown University*, 1957..... New Jersey  
 Schillaci, Richard Francis, A.B., *Johns Hopkins University*, 1957... Maryland  
 Small, Marvin Myron, *Colgate University*..... Maryland  
 Sonn, Thomas Michael, B.S., *Loyola College*, 1956..... Maryland  
 Tate, Wayne Barrett, *University of Maryland*..... Maryland  
 Tilley, Larry Gordon, B.S., *Roanoke College*, 1957..... Maryland  
 Urban, George Edward, Jr., A.B., *Dartmouth College*, 1957..... Maryland  
 Vann, Nina Crisman, *University of Kentucky*..... Maryland

Vitek, Brantley Paul, A.B., *Western Maryland College*, 1957.....Maryland  
 Waters, Zack James, Jr., A.B., *University of North Carolina*, 1956....Maryland  
 Webb, Angela A., *Morgan State College*.....Maryland  
 Wendling, Andrew William, B.S., *Massachusetts Institute of Technology*,  
 1954; M.S., 1955.....New York  
 Whitelock, Leland David, Jr., B.S., *University of Maryland*, 1957....Maryland  
 Whorton, Margaret Evelyn, A.B., *Western Maryland College*, 1957...Maryland  
 Winnacker, John Lowrie, A.B., *Williams College*, 1957.....Maryland  
 Wisotzkey, Howard Milton, Jr., A.B., *Dartmouth College*, 1956.....Maryland  
 Young, Anthony John, A.B., *Loyola College*, 1957.....Maryland

FRESHMAN CLASS, SEPTEMBER 11, 1958 TO JUNE 6, 1959

Anderson, Ian Russell, A.B., *La Sierra College*, 1958.....Maryland  
 Bahr, Raymond Donald, B.S., *University of Maryland*, 1957.....Maryland  
 Baker, Joseph Fred, B.S., *University of Maryland*, 1958.....Maryland  
 Barbalace, Frank, B.S., *Loyola College*, 1937.....Maryland  
 Barker, Arnold Griffith, Jr., B.S., *Louisiana State University*, 1948....Louisiana  
 Barrick, Donald Michael, *George Washington University*.....Maryland  
 Berman, Merrill Ian, A.B., *Johns Hopkins University*, 1957.....Maryland  
 Black, Michael S., A.B., *Johns Hopkins University*, 1958.....Illinois  
 Bokat, Robert Bruce, B.S., *University of Maryland*, 1958.....Maryland  
 Bonovich, Kermit P., B.S., *University of Maryland*, 1954.....Maryland  
 Bowerman, Jack Wallace, A.B., *University of Maryland*, 1958.....Maryland  
 Bradley, Mark Edmund, B.S., *Notre Dame University*, 1958.....Maryland  
 Breschi, Louis Carle, B.S., *Loyola College*, 1958.....Maryland  
 Broughton, Bruce David, A.B., *University of Southern California*,  
 1957 .....California  
 Buchmann, John Ulrich, *University of Maryland*.....Maryland  
 Borgan, Paul, B.S., *University of Maryland*, 1958.....Maryland  
 Burke, Francis Joseph, A.B., *Providence College*, 1954.....Rhode Island  
 Caplan, Louis Robert, A.B., *Williams College*, 1958.....Maryland  
 Carozza, Frank Andrew, Jr., A.B., *Lehigh University*, 1958.....Maryland  
 Child, David Leighton, A.B., *Dartmouth College*, 1958.....New Hampshire  
 Cian, F, Frank, B.S., *Alabama Polytechnic Institute*, 1958.....Maryland  
 Closson, Jon Barber, A.B., *University of Maryland*, 1958.....Maryland  
 Cohen, Alan Bernard, A.B., *Duke University*, 1958.....Maryland  
 Cramton, David Chester, A.B., *University of Pennsylvania*, 1957...Pennsylvania  
 Cullis, Thomas Carlton, *Washington College*.....Maryland  
 Dugan, Hammond James, III, A.B., *College of Holy Cross*, 1958.....Maryland  
 Edgar, Paul James, B.S., *Loyola College*, 1958.....Maryland  
 Farinholt, Jon Whiting, A.B., *Princeton University*, 1958.....Maryland  
 Felser, Frederick Samuel, A.B., *University of Pennsylvania*, 1958....Maryland  
 Feuerman, Harvey Samuel, *University of Maryland*.....Maryland  
 Figelman, Leonard Jay, *University of Maryland*.....Maryland  
 Franklin, Anselm Leo, B.S., *University of Maryland*, 1958.....Maryland

## Matriculants

- Fratto, Carmen Anthony, B.S., *University of Maryland*, 1958.....New Jersey  
 Friedman, Michael, A.B., *Western Maryland College*, 1958.....New York  
 Gaither, Herbert, B.S., *Dickinson College*, 1958.....Maryland  
 Gallacher, Bruce Gordon, B.S., *University of Maryland*, 1958.....Maryland  
 Gallager, Laurence Raymond, A.B., *Haverford College*, 1958.....Maryland  
 Gendason, Howard Hess, A.B., *Western Maryland College*, 1957.....Maryland  
 Goldman, Robert Harry, A.B., *Johns Hopkins University*, 1958.....Maryland  
 Goldstein, Burton David, A.B., *Johns Hopkins University*, 1958.....Maryland  
 Harris, Jay Evans, A.B., *Johns Hopkins University*, 1958.....Maryland  
 Hawkins, Irvin Franklin, Jr., B.S., *University of Maryland*, 1958.....Maryland  
 Haws, John Philip, A.B., *Princeton University*, 1958.....Maryland  
 Heinritz, Colen Clifford, B.S., *University of Maryland*, 1951.....Maryland  
 Hills, Joseph Dixon, A.B., *Princeton University*, 1954.....Maryland  
 Hoffenberg, Robert Alan, B.S., *Franklin and Marshall College*,  
 1958.....Maryland  
 Hunt, Edward Ostend, B.S., *Capital University*, 1958.....Maryland  
 Johnstone, William Thompson, B.S., *University of Maryland*, 1958...Maryland  
 Karpers, Bernard Stanley, Jr., B.S., *Loyola College*, 1958.....Maryland  
 Katz, Mayer M., A.B., *Johns Hopkins University*, 1958.....Maryland  
 Kaufman, Donald Earl, B.S., *University of Cincinnati*, 1956.....Maryland  
 Kaufman, Stephen Howard, A.B., *Johns Hopkins University*, 1958...Maryland  
 Kilchenstein, Michael Willard, B.S., *Loyola College*, 1958.....Maryland  
 Klatsky, Stanley Albert, B.S., *University of Maryland*, 1956.....Maryland  
 Klimes, Ronald Louis, A.B., *Johns Hopkins University*, 1958.....Maryland  
 Koenigsberg, Edward Jay, B.S., *University of Maryland*, 1958.....Maryland  
 Kohlhepp, Paul Anthony, B.S., *Loyola College*, 1958.....Maryland  
 Kopilnick, Melvin David, B.S., *Franklin and Marshall College*, 1957..Maryland  
 Lachman, Alan Barry, A.B., *Haverford College*, 1957.....District of Columbia  
 Lanphear, David Marshall, B.S., *Lehigh University*, 1956.....Pennsylvania  
 Lindberg, Bruce Alan, A.B., *Clark University*, 1958.....Massachusetts  
 Love, Lois Hosbach, A.B., *Swarthmore College*, 1943; M.S.,  
*University of Pennsylvania*, 1945; Ph.D., 1948.....Maryland  
 Luxenberg, Edwin Ralph, B.S., *University of Maryland*, 1958.....Maryland  
 MacMurray, Peter Starrett, *University of Maryland*.....Maryland  
 Malan, Kenneth Peck, B.S., *Brigham Young University*, 1958.....Utah  
 Mastan, Peter Frank, A.B., *University of California*,  
*Los Angeles*, 1958.....California  
 McCormick, Robert Alexander, A.B., *Western Maryland College*,  
 1958.....Maryland  
 McNamara, Norbert Joseph, B.S., *University of California*,  
 1955.....Maryland  
 Moshang, Thomas, Jr., A.B., *Columbia University*, 1958.....New York  
 Orton, Kenneth Thomas, B.S., *Brigham Young University*, 1958.....Utah  
 Patterson, Theodore Carter, B.S., *Morgan State College*, 1954.....Maryland  
 Paul, David Brownlie, B.S., *Wagner College*, 1956.....Virginia  
 Peterson, Verne Albert, A.B., *Utah University*, 1957.....New York



Petrushansky, Donald David, A.B., *Johns Hopkins University*, 1958...Maryland  
 Pratt, Jordan Crandel, B.S., *University of Maryland*, 1958.....Maryland  
 Pullen, Phyllis Kenwenhoven, A.B., *Goucher College*, 1944.....Maryland  
 Rupke, John Allen, A.B., *Calvin College*, 1953.....Washington  
 Satou, Alan Henry, B.S., *Loyola College*, 1958.....Maryland  
 Schaufele, Robert Lee, B.S., *University of Maryland*, 1958.....Maryland  
 Schmieler, George Carl, B.S., *University of Maryland*, 1958.....Pennsylvania  
 Semer, Howard Alan, A.B., *Cornell University*, 1958.....New Jersey  
 Shefferman, Michael Mendel, A.B., *Johns Hopkins University*, 1958..Maryland  
 Sophocleus, Gregory John, B.S., *University of Maryland*, 1956.....Maryland  
 Sothoron, Warren Haddox, Jr., B.S., *Juniata College*, 1958.....Maryland  
 Steinwald, Osmar Paul, Jr., A.B., *Johns Hopkins University*, 1958...Maryland  
 Stephenson, Richard Rider, B.S., *University of Maryland*, 1958.....Maryland  
 Traum, Arthur William, A.B., *Brown University*, 1958.....Maryland  
 Tuttle, Kenneth William, B.S., *Oregon State College*, 1958.....Oregon  
 Twardowicz, Mitchell Ladislaus, Jr., B.S., *Loyola College*, 1958.....Maryland  
 Updike, Ralph Evans, B.S., *University of Maryland*, 1954.....Maryland  
 Vilk, Victor Joseph, A.B., *Montana State University*, 1951;  
 M.A. 1954.....Montana  
 Waters, John Hooper, *Richmond Professional Institute*.....Maryland  
 Weglicki, William Bernard, Jr., B.S., *Loyola College*, 1958.....Maryland  
 Weiss, Donald Harry, B.S., *Western Maryland College*, 1958.....Maryland  
 Wilgis, Edward Ford Shaw, A.B., *Princeton University*, 1958.....Maryland  
 Williams, John Mann, A.B., *Western Maryland College*, 1951.....Maryland  
 Zampietro, Frank Albert, A.B., *Johns Hopkins University*, 1958...Connecticut  
 Zikoski, Paul Leonard, B.S., *University of Scranton*, 1953.....Pennsylvania

## INTRAMURAL POSTGRADUATE STUDENTS

January 1959 to May 1959

### BASIC SCIENCES AS THEY APPLY TO THE PRACTICE OF MEDICINE

Albites, Victor E., M.D.	Lima, Peru	<i>Univ. of San Marcos</i>
Ascoli, Nino, M.D.	Rome, Italy	<i>Univ. of Rome</i>
Atkins, John L., M.D.	York, Pa.	<i>Univ. of Pennsylvania</i>
Chang, Paul J., M.D.	Seoul, Korea	<i>Severance Medical College</i>
Chen, Franklin S. Y., M.D.	Kowloon, Hongkong	<i>Univ. of Hongkong</i>
Choi, Ock Soon, M.D.	Seoul, Korea	<i>Seoul National Univ.</i>
Cuello, Luz Fule, M.D.	San Pollo City, Philippines	<i>Santo Tomas Univ.</i>
Czebotari, Alexander L., M.D.	Kiev, U.S.S.R.	<i>Univ. of Karl Franzen, Graz, Austria</i>
Dabolins, Robert, M.D.	Latvia	<i>Univ. of Munich</i>
Duke, Leslie D., M.D.	Washington, D. C.	<i>Howard University</i>

## *Intramural Postgraduate Students*

Farvar, Boyouk, M.D.	Teheran, Iran	<i>Univ. of Teheran, Iran</i>
Glahn, Antonius, M.D.	Paderborn, Germany	<i>Univ. of Frankfurt</i>
Hakim, Mansoor, M.D.	Teheran, Iran	<i>Univ. of Teheran</i>
Hartman, John F., M.D.	Baltimore, Maryland	<i>Univ. of Maryland</i>
Hernandez, Fidel A., M.D.	La Habana, Cuba	<i>Havana Medical School, Cuba</i>
Kilic, Naci Mustafa, M.D.	Istanbul, Turkey	<i>Univ. of Istanbul</i>
Kim, Tai Hoon, M.D.	Seoul, Korea	<i>Univ. of Taegu, Korea</i>
Lakra, Prem Paul, M.D.	Sunderland, England	<i>Durham Medical School, England</i>
Lazaro, Asuncion L., M.D.	Manila, Philippines	<i>Univ. of Manila</i>
Lee, Chae Ryun, M.D.	Seoul, Korea	<i>Seoul Women's Medical College</i>
Movahedi, Amir Mehdi, M.D.	Teheran, Iran	<i>Univ. of Teheran</i>
Nagaya, Hiroshi, M.D.	Tokyo, Japan	<i>Univ. of Tokyo</i>
Nakazawa, Hiroshi, M.D.	Takasaki, Japan	<i>Univ. of Chiba, Japan</i>
Oceretko, Jaroslav, M.D.	Poland	<i>Univ. of Erlangen, W. Germany</i>
Oteyza, Benigno, M.D.	Manila, Philippines	<i>Univ. of Philippines</i>
Papadopoulo, Christodoulo, M.D.	Alexandria, Egypt	<i>Univ. of Alexandria, Egypt</i>
Queen, Joseph E., M.D.	Baltimore, Maryland	<i>Univ. of Maryland</i>
Rezai, Nasser, M.D.	Teheran, Iran	<i>Univ. of Teheran</i>
Samson, Celia de Guzman, M.D.	Mariachs, Bataan, Philippines	<i>Univ. of Santo Tomas</i>
Sarshar, Mir Ahmad, M.D.	Teheran, Iran	<i>Univ. of Teheran</i>
Sehgal, Narinder Nath, M.D.	Hissar, Pb., India	<i>Univ. of Pangale, India</i>
Somogyi, Emil L., M.D.	Budapest, Hungary	<i>Univ. of Budapest</i>
Sorongon, Domingo C., M.D.	Pototan, Iloilo, Philippines	<i>Univ. of Philippines</i>
Suarez Faustino Reynes, M.D.	Cebu City, Philippines	<i>Manila Central University</i>
Suero, Jesus Trinidad, M.D.	Caulubang, Laguna, Philippines	<i>Univ. of Philippines</i>
Taubert, Hans Dieter, M.D.	Saxony, Germany	<i>Univ. of Ludwigs-Maximilians</i>
Tuzel, Esref Tomrul, M.D.	Istanbul, Turkey	<i>Univ. of Istanbul</i>
Van der Veen, Teunis, M.D.	Netherlands	<i>Univ. of Groningen, Netherlands</i>
Venter, Charles Randolph, M.D.	Washington, D. C.	<i>Howard University</i>



CLINICAL ANATOMY

Aldave, Alfredo B., M.D.	Peru	<i>Univ. of San Marcos</i>
Barranco, Frank T., M.D.	Baltimore Maryland	<i>George Washington Univ.</i>
Caguin, Feodore, M.D.	Laguna, Philippines	<i>Univ. of Santo Tomas</i>
Chang, Paul J., M.D.	Seoul, Korea	<i>Severance Medical College</i>
Dalrymple, Richard Y., M.D.	Hanover, Pa.	<i>Temple University, Texas</i>
Fraiji, Elie K., M.D.	Zahli, Lebanon	<i>Univ. of Paris</i>
Galloway, C. Barton, M.D.	Baltimore, Maryland	<i>Univ. of Maryland</i>
Gowda, A. M. Shankare, M.D.	Bangalore, India	<i>Univ. of Mysore</i>
Hasheminejad, Aliasghar, M.D.	Teheran, Iran	<i>Univ. of Teheran</i>
Lee, Kee Dong, M.D.	Seoul, Korea	<i>Seoul National University</i>
Mitanti, Tetsumi T., M.D.	Kyoto, Japan	<i>Univ. of Kyoto</i>
Paulino, Pedro P., M.D.	Tordo, Marik, P. I.	<i>Univ. of Santo Tomas</i>
Samuels, Jules G., M.D.	Baltimore, Maryland	<i>Univ. of Amsterdam</i>
Sheldon, William B., M.D.	Yakima, Washington	<i>Univ. of Washington</i>
Weidmann, Alfred, M.D.	Hagen, Germany	<i>Univ. of Heidelberg, Ger.</i>
Zapata, Alberto, M.D.	Lima, Peru	<i>Univ. of San Marcos</i>

OTOLARYNGOLOGY

Alderman, George Carl, M.D.	Baltimore, Maryland	<i>Univ. of Maryland</i>
Alves, Antonio Batista, M.D.	Rio de Janeiro, Brazil	<i>Univ. of Brazil</i>
Bayri, Mehmet Fuat, M.D.	Ankara, Turkey	<i>Univ. of Ankara</i>
Borsanyi, Steven, M.D.	Baltimore, Maryland	<i>Univ. of Budapest</i>
Gorosin, Restituto S., M.D.	Manila, Philippines	<i>Univ. of Santo Tomas</i>
Kilic, Naci Mustafa, M.D.	Istanbul, Turkey	<i>Univ. of Istanbul</i>
Minet, Jean Claude, M.D.	Mouseron, Belgium	<i>Univ. of Louvain</i>
Pizanis, George, M.D.	Baltimore, Maryland	<i>Univ. of Athens, Greece</i>

INDUSTRIAL MEDICINE (Short Course)

October 16 and 23, 1958  
Total number of students—61

MEDICAL CONFERENCE (Short Course)

January 20-21-22, 1959  
Total number of students—24

## Summary of Students

### CLINICAL CYTOLOGY (Short Course)

Pathologists .....	March 16-21, 1959
Clinicians .....	March 19-21, 1959
Total number of students—67	

## SUMMARY OF STUDENTS

SEPTEMBER 11, 1958 TO JUNE 6, 1959

<i>Medical Students</i>	<i>Male</i>	<i>Female</i>	<i>Total</i>
Senior Class	82	1	83
Junior Class	81	3	84
Sophomore Class	86	4	90
Freshman Class	96	2	98
	—	—	—
Medical Students	345	10	355

## GEOGRAPHICAL DISTRIBUTION OF MEDICAL STUDENTS

SEPTEMBER 11, 1958 TO JUNE 6, 1959

California	4	Ohio	5
Connecticut	3	Oregon	2
District of Columbia	4	Pennsylvania	12
Florida	3	Rhode Island	4
Georgia	1	Tennessee	1
Idaho	1	Utah	6
Illinois	1	Vermont	1
Indiana	3	Virginia	1
Iowa	1	Washington	2
Louisiana	1	West Virginia	6
Maryland	252	Wisconsin	1
Massachusetts	5	Wyoming	1
Montana	2		
New Hampshire	1	United States Possessions	
New Jersey	9	Puerto Rico	8
New York	10	Foreign	
North Carolina	3	Hungary	1

## MEDICAL ALUMNI ASSOCIATION

OFFICERS 1958-1959

(Term beginning July 1, 1958 and ending June 30, 1959)

*President*

Harry M. Robinson, Jr., M.D.

Alumni Association, Endowment Fund

*President-elect*

Ernest I. Cornbrooks, M.D.

*Vice-Presidents*

William D. McClung, M.D.    Norman J. Wilson, M.D.    James Vaughn, M.D.

Arthur G. Siwinski, M.D.

*Treasurer*

E. Roderick Shipley, M.D.

*Assistant Secretary*

J. Emmett Queen, M.D.

*Secretary*

Bernice Broccoli—1958-59

Beatrice Bossert—1959-60

*Executive Secretary*

William H. Triplett, M.D.

*Executive Director*

*Board of Directors*

J. Sheldon Eastland, M.D.

William B. Long, Jr., M.D.

Arthur Siwinski, M.D.

J. Emmett Queen, M.D.

E. Roderick Shipley, M.D.

William H. Triplett, M.D.

Gibson J. Wells, M.D.

Frank K. Morris, M.D.

J. Morris Reese, M.D.

Harry M. Robinson, Jr., M.D.

Howard B. Mays, M.D.

*Nominating Committee*

J. Sheldon Eastland, M.D., *Chairman*

Walter Karfgin, M.D.

Daniel R. Robinson, M.D.

Isadore Kaplan, M.D.

William B. Long, M.D.

*Library Committee*

Milton S. Sacks, M.D.

*Representatives*

*General Alumni Board*

William H. Triplett, M.D.

Thurston R. Adams, M.D.

Daniel J. Pessagno, M.D.

*Representatives*

*Editorial Board, Bulletin*

Franklin Leslie, M.D.

John Hornbaker, M.D.

C. V. Williamson, M.D.

*Representatives*

*Faculty Board*

J. Sheldon Eastland, M.D.

Gibson J. Wells, M.D.

ENDOWMENT FUND

The following constitute the Board of Trustees of this Fund:

Charles Reid Edwards, *President*

Wetherbee Fort

Austin C. Diggs

H. Boyd Wylie

James B. Bird

Harry Clifton Byrd

Albert Burns

H. Vernon Eney

Everett S. Diggs, *Secy.-Treas.*

This Board is incorporated by act of the Legislature of the State, its legal title being "The Trustees of the Endowment Fund of the University of Maryland," and is independent and self-perpetuating. Its powers are limited to the expenditure of the interest derived from the various funds, which is applied as directed by donors for the benefit of the University. Contributions, donations

## Endowment Fund

and bequests are solicited from Alumni and friends. They may be made to the general or University Fund, to the Medical Fund or to any other department of the University. If intended for the School of Medicine, they may be given to the general medical fund or to some special object, as building, research, library, pathology, hospital, publication, laboratories, gymnasium, scholarship, medal, prize, etc., in which case the wishes of the donor will be strictly regarded. Checks should be made payable to The Trustees of the Endowment Fund of the University of Maryland, and sent to Dr. Everett S. Diggs, 11 E. Chase St., Baltimore 2, Maryland.

### FORMS OF DEVISE OR BEQUEST

#### TO ENDOWMENT FUND

I give, devise and bequeath to the Trustees of the Endowment Fund of the University of Maryland, a corporation incorporated under the law of the State of Maryland, for the benefit of the Faculty of Medicine.....

.....  
.....  
(Here state amount or describe property)

#### TO SCHOOL OF MEDICINE

I give, devise and bequeath to the Regents of the University of Maryland, a corporation incorporated under the laws of the State of Maryland, for the benefit of the Faculty of Medicine.....

.....  
.....  
(Here state amount or describe property)










Catalog of

School of Medicine

1961-1962

UNIVERSITY OF MARYLAND  
**BULLETIN**

*The provisions of this publication are not to be regarded as an irrevocable contract between the student and the University of Maryland. The University reserves the right to change any provision or requirement at any time within the student's term of residence. The University further reserves the right at any time, to ask a student to withdraw when it considers such action to be in the best interests of the University.*



# *School of Medicine*

## UNIVERSITY OF MARYLAND

### Calendar

#### 1961

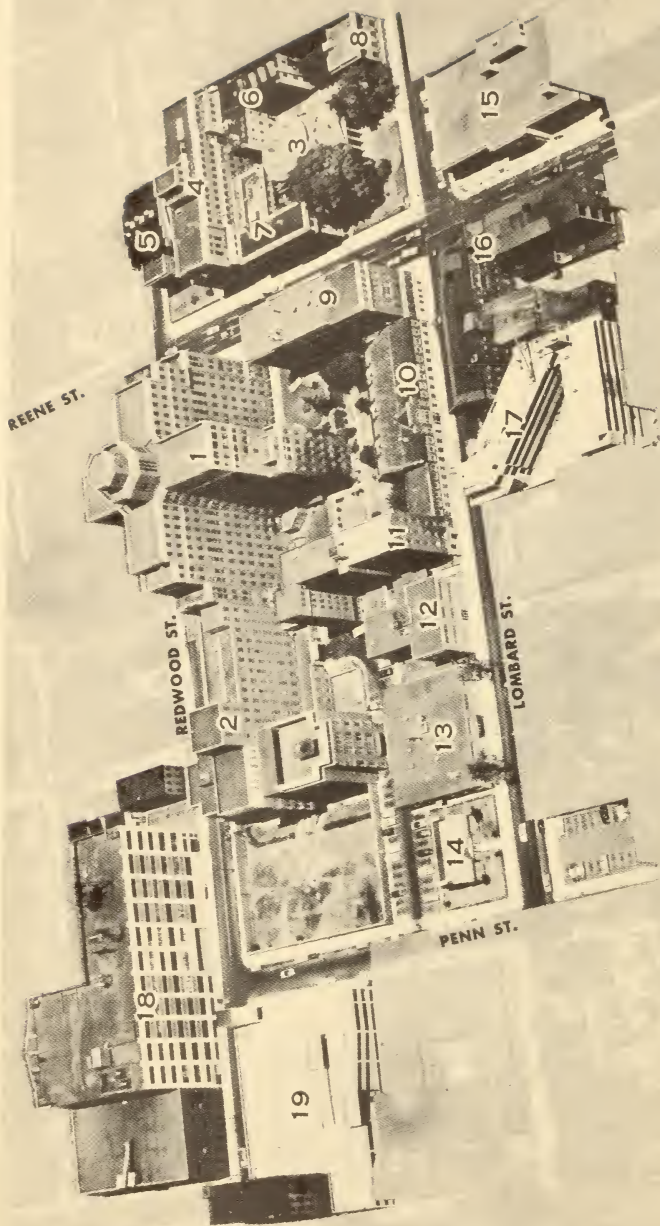
SEPTEMBER	12	Tuesday—Registration and Orientation exercises for students
SEPTEMBER	13	Wednesday—Registration of students in 2nd and 4th years
SEPTEMBER	14	Thursday—Instruction begins for all classes
NOVEMBER	23	Wednesday—Thanksgiving recess begins 5:00 P.M.
NOVEMBER	27	Monday—Instruction resumed
DECEMBER	22	Friday—Christmas recess begins 5:00 P.M.

#### 1962

JANUARY	2	Tuesday—Instruction resumed
JANUARY	31	Wednesday
thru		} Registration 2nd semester
FEBRUARY	2	
FEBRUARY	22	Friday
FEBRUARY	22	Thursday—Holiday
APRIL	19	Thursday—Easter recess begins 5:00 P.M.
APRIL	23	Monday—Instruction resumed
JUNE	8	Friday—Pre-commencement ceremonies
JUNE	9	Saturday—Commencement exercises

#### EXAMINATIONS

Examination schedules will be posted for each class.



## BALTIMORE CAMPUS UNIVERSITY OF MARYLAND

1. UNIVERSITY HOSPITAL—UH
2. PSYCHIATRIC INSTITUTE—PI
3. MEDICAL BUILDING (DAVIDGE HALL)—DWH
4. BRESSLER RESEARCH BUILDING—BRB
5. SCHOOL OF LAW—SL
6. GRAY LABORATORY—GL
7. MEDICAL TECHNOLOGY BUILDING—MTB
8. ADMINISTRATION BUILDING—AB
9. SCHOOL OF DENTISTRY—SD
10. DENTAL CLINIC—DC
11. NURSES RESIDENCE—NR
12. SCHOOL OF NURSING (WHITEHURST HALL)—WH
13. SCHOOL OF PHARMACY (DUNNING HALL)—DH
14. KELLY MUSEUM—KM
15. HEALTH SCIENCES LIBRARY—HSL
16. OUTPATIENT DEPARTMENT—OPD
17. UNION DORMITORY—UD
18. PLANNED FACILITY FOR ADMINISTRATION, BASIC SCIENCES AND PHYSICAL PLANT
19. PARKING GARAGE



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# Requirements For Admission

## *Policy on Admissions*

Academic achievement, medical aptitude test scores, recommendations from college instructors or premedical committee, and personal interview are all carefully considered in evaluating an applicant. A student may be denied admission because of unsatisfactory reports in any one of these areas. Academic achievement alone does not automatically insure acceptance as the Committee is equally concerned with personality, aptitude, character, integrity, motivation, and assessment of the individual as a potential physician. Letters of recommendation are requested from at least two science instructors and one non-science instructor. Candidates will be expected to complete all required basic premedical subjects before July 1 of the year they are planning to enter.

Matriculants are required to accept the provisions of the Honor Code and to agree to assume its obligations prior to registration. A copy of the Honor Code and agreement form is sent to each candidate with notice of acceptance.

Preference will be given to Maryland residents but well qualified applicants from other areas in the United States or Canada will be considered. Applicants from foreign schools must complete at least two years of premedical work in an approved college or university in the United States or Canada.

## *Definition of Resident and Non-Resident*

Students who are minors are considered to be resident students if, at the time of their registration, their parents have been domiciled in this State for at least one year.

The status of the residence of a student is determined at the time of his first registration in the University, and may not thereafter be changed by him unless, in the case of a minor, his parents move to and become legal residents of the State by maintaining such residence for at least one full year. However, the right of the minor to change from a non-resident to resident status must be established by him prior to the registration period for any semester.

Adult students are considered to be residents if, at the time of their registration, they have been domiciled in Maryland for at least one year

provided such residence has not been acquired while attending any school or college in Maryland or elsewhere. Time spent on active duty in the Armed Forces while stationed in Maryland will not be considered as satisfying the one year period referred to above, except in those cases in which the adult was domiciled in Maryland for at least one year prior to his entrance into the Armed Services and was not enrolled in any school during that period.

The word domicile as used in this regulation shall mean the permanent place of abode. For the purpose of this rule only one domicile may be maintained.

### *Requirements for Admission to First Year Class*

Careful attention should be given to the selection of elective courses particularly in the natural sciences. Except under unusual circumstances the student should plan a four year curriculum with a suitable Arts and Science major, leading to a bachelor's degree. A major in an area other than science is quite acceptable although it is not intended to divert students from a science major if this is their field of choice. The student taking science courses beyond the minimal requirements is encouraged to take such subjects as embryology, comparative anatomy, psychology, anthropology, physical chemistry, or cellular physiology. Courses duplicating medical school work, such as histology, neurology, biochemistry, mammalian physiology, human anatomy, bacteriology are not recommended unless they are required in the student's major sequence. Having credit in such courses will not excuse students from taking them in medical school. In the non-science area, courses in English, philosophy, sociology, economics, history, government, and politics are recommended.

A minimum of 90 semester hours (three academic years) of acceptable college credit are required exclusive of physical education and military science, earned in colleges of arts and sciences whose names occur on the current list of "Approved Colleges of Arts and Sciences" as compiled by the Council on Medical Education and Hospitals of the American Medical Association. Applicants who will have earned a bachelor's degree in arts and sciences before registration for medical school from an approved college or university will be given preference over applicants who have not completed the requirements for the bachelor's degree. Only those courses will be acceptable which are approved for credit towards an A.B. or B.S. degree by the university or college attended as well as the University of Maryland.

The following college courses and credits at an acceptable level are required before registering for Medical School.

	<i>Semester</i>	<i>Hours</i>	<i>Quarter</i>	<i>Hours</i>
General biology or zoology	*(6)	8	*(9)	12
Inorganic chemistry	*(6)	8	*(9)	12
Organic chemistry	....	6	....	9
Quantitative or physical chemistry	....	3	....	5
General physics	*(6)	8	*(9)	12
English	....	12	....	18
Foreign language	....	6	....	9

\* Consideration will be given applicants from the New England area where 6 semester hours, or 9 quarter hours, is the standard credit for a science course.

## 4 *Requirements for Admission*

Medical College Admission Tests should be taken in the spring preceding, but are required not later than October of the year prior to entrance. Applicants should write The Psychological Testing Corporation, 304 East 45th Street, New York 17, New York.

### *Requirements for Admission to Advanced Standing*

Students who have attended approved medical schools are eligible to file applications for admission to the second and third year classes only. These applicants must meet the current first year entrance requirements in addition to presenting acceptable medical school credentials, and a medical school record based on courses which are equivalent to similar courses in this school.

Applicants for admission to third year class are required to complete satisfactorily the National Board Examination, Part I, before registration.

Persons who already hold the degree of Doctor of Medicine will not be admitted to the Medical School as a candidate for that degree from this University.

No applicants from foreign medical schools will be considered for advanced standing.

### *Method of Making Application*

Request for application forms should be sent to Committee on Admissions, School of Medicine, 522 West Lombard Street, Baltimore 1, Maryland.

Applications for admission to first year class in September are to be filed between July 1 and January 15 of preceding calendar year.

Candidates for admission who live in or expect to practice medicine in Pennsylvania or New Jersey should apply to their respective State Boards of Education for Medical Student Qualifying Certificates.

Applications for admission to advanced standing as made in accordance with instructions accompanying the application form.

# Instruction Leading To Degree of Doctor of Medicine

## *Organization of Curriculum*

The curriculum is organized to permit students to acquire fundamental knowledge of the principles of medicine, establish habits of applying critical evaluation and judgment to problems of health and disease, and develop ethical principles which inspire trust in their patients and respect of the community.

Instruction encompasses four academic years. The first and second years are largely devoted to a study of the medical basic sciences. Introductory instruction in clinical areas is given in the second year. Instruction in the third and fourth years is principally of the preceptor type centered about the patient. Small student groups permit close personal relationships. Student research is encouraged during the summer recess and during the limited elective time permitted in the schedule. In most courses the final examination as the sole test of achievement has disappeared, and the student's final grade is determined by frequent examinations, recitations, conferences, and assigned work carried on throughout the course.

## *General Faculty Rules*

The University authorities reserve the right to make changes in the curriculum, the requirements for advancement and graduation, fees, and in rules and regulations whenever expedient.

The School of Medicine does not accept responsibility for students' personal property.

Students who report for classes later than one week after scheduled time will be permitted to begin work only by permission of the Dean.

Attendance at all scheduled classes is expected.

Notice of change of address should be submitted promptly to the Dean's Office and to the Registrar's Office.



## Grading System

Official grades are designated by these symbols:

Symbol	
3	Upper third of class
2	Middle third of class
1	Lower third of class
P	Satisfactory completion of course
F	Failure
I	Incomplete
C	Condition

Students will receive a grade for the various disciplines in the manner outlined below:

Anatomy	}	3, 2, 1, F, I, C
Biochemistry		
Physiology		
Microbiology		
Pharmacology		
Pathology		
Psychiatry		
Surgery		
Medicine		
Pediatrics		
Ob-Gyn		
Radiology	}	P, F, I, C
Ophthalmology		
Anesthesiology		
Preventive Medicine		

## Advancement and Graduation

At the end of each academic year the Advancement Committee convenes to review the records of all students in each class. The estimate of a student's standing is based on academic achievement, his moral and ethical traits, and general evaluation of his fitness for a career in medicine. The committee recommends appropriate action to the Faculty Board.

All students who have successfully completed all requirements are recommended for promotion or graduation.

Students with unabsolved failures, incompletes, or conditions will not be permitted to advance or to graduate.

A student who has failures in two completed major subjects will be required to withdraw from the medical school.

National Board Examinations are required as comprehensive examinations at the end of the second and fourth years. In the event a student fails to pass these examinations, he will be required to pass a comprehensive examination prepared by the appropriate faculty of the School of Medicine prior to advancement or graduation.

## Certification for State Board Examinations

Students at the end of their second and fourth years will be certified to State Board examiners if they have successfully completed the prescribed course of instruction.

# Additional Educational Programs

## *Baccalaureate Degree*

Selected students entering the School of Medicine from colleges which usually grant a baccalaureate degree after the successful completion of the first year of medicine, are responsible for: a) Providing a certificate from his college or university that he is eligible for this degree, and b), Meeting all requirements of the School of Medicine for advancement to the second year.

## *Graduate Program*

Graduate courses and research opportunities leading to advanced degrees are available in most of the basic science departments of the School of Medicine. Students pursuing graduate work must register in the Graduate School of the University of Maryland and meet the same requirements as other graduate students. Detailed information concerning fees, scholarships, and other material of general nature, may be found in the University publication titled *An Adventure in Learning*. This may be obtained from the Office of University Relations, North Administration Building, University of Maryland, College Park, Maryland.

## *Combined Doctor of Philosophy— Doctor of Medicine Program*

Properly qualified medical students may elect to enter the combined educational program leading to Doctor of Medicine and a graduate degree. Such students may arrange a leave of absence of up to three years at the end of their second or third year in medical school to become candidates for either M.S. or Ph.D. in one of the basic medical sciences. Before entering the combined program, students must meet the requirements for admission to the Graduate School and be acceptable to the department of their choice as a candidate for an advanced degree.

## *Internships and Residencies*

University Hospital has twenty-three graduate specialty training programs for interns and residents approved by the Council of Medical Education and Hospitals. In the Department of Medicine there are residency programs in dermatology, internal medicine, and neurology. The residency

## 8 *Fellowships*

programs in the Department of Surgery include general surgery, neurosurgery, orthopedic surgery, thoracic surgery, otolaryngology, and urology. The Department of Pediatrics offers resident training programs in pediatrics and pediatric allergy. In addition, resident training is provided in anesthesiology, obstetrics-gynecology, pathology, psychiatry, and radiology. In total, there are approximately 180 approved resident positions in University Hospital.

Intern programs at the University Hospital include the rotating internship; straight internships in medicine, pathology, pediatrics, and surgery; and the mixed medical internships. University Hospital participates in the National Intern Matching Program, and there are presently 38 approved intern positions.

Appointments to intern and resident positions are made by the Director of the hospital upon the recommendation of the Intern and Resident Committee of the Medical Board or, in the case of residents, upon the recommendation of the appropriate Clinical Department Head. Correspondence and applications should be addressed to

THE DIRECTOR  
University Hospital  
Baltimore 1, Maryland

### *Fellowships*

Opportunities for research and special training in the form of fellowships are available in the various departments of the School of Medicine. A number of summer fellowships for medical students provide opportunities for work in a variety of disciplines. Inquiries may be directed to the head of the department or division in which service is desired.

# Tuition, Fees and Registration

## *Current Fees*

Application Fee .....	\$ 7.50
Matriculation Fee (New Students).....	10.00
Tuition—Resident of Maryland.....	650.00
Tuition—Non-Residents .....	800.00
Laboratory Fee .....	25.00
Student Activities Fee.....	20.00
Student Health Fee.....	10.00
*Student Union Fee.....	30.00
**Special Fee .....	10.00
National Board Examination Fee (2nd and 4th year students)	10.00
***Hospital Insurance (Blue Cross—Individual Plan).....	45.80
—Family Plan) .....	102.00

The application fee should be submitted with the formal application to medical school. A matriculation fee of \$10 and a deposit on tuition of \$50 is required of all applicants before the expiration date specified in the offer of acceptance. The deposit on tuition will be credited against first semester charges. In the event of withdrawal before registration the matriculation fee will be retained by the school of medicine and the advance deposit will be returned on request.

## *Registration*

For the fall semester, all students, after proper certification, are requested to complete a set of registration cards to be obtained from the Registrar's Office. All students are expected to complete their registration, including the payment of bills on the registration days. Those who do not complete their registration on the prescribed days will be charged a fee of \$5.00.

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\*The Student Union fee is payable by all students enrolled in the Professional Schools on the Baltimore Campus and is used to pay interest on and amortize the cost of construction of the Union Building.

\*\*The Special Fee is payable by all full-time students enrolled in the Professional Schools on the Baltimore Campus and is used to finance equipment for the Union Building.

\*\*\*Membership of the student in Blue Cross or any other acceptable hospital insurance is required. Each student must produce certified proof of such membership at the time of registration.



## 10 Fees, Funds, & Refunds

One-half of the tuition fee and all of the following—the laboratory fee, the student health fee, the student union fee, the National Board Examination fee, the special fee, and the student activities fee are payable on the date specified for registration for the first semester. Blue Cross Hospitalization for six months in advance is paid at the beginning of each semester.

The remainder of the tuition fee shall be paid on the date designated for the payment of fees for the second semester. Fourth year students shall pay the graduation fee, in addition, at this time.

### *Non-Payment of Fees*

If semester fees are not paid in full on the specified registration dates, a penalty of \$5.00 will be added.

If a satisfactory settlement or an agreement for settlement is not made with the business office within ten days after a payment is due, the student automatically is debarred from attendance at classes and will forfeit the other privileges of the School of Medicine.

### *Re-Examination Fee*

A student who is eligible for re-examinations must secure a bill in the amount of \$5.00 from the Registrar's Office and make payment to the Cashier for each subject in which he is to be examined, and he must present the receipt to the faculty member giving the examination before he will be permitted to take the examination.

### *Student Activities Fund*

This fund supports all student activities and is budgeted by the Student Council in accordance with its own by-laws. All expenditures from this fund must be approved by the Student Council. The fund supports the student recreational and social program, representation at national conventions for certain student organizations, the cost of membership in the National Internship Association as well as other activities. A portion of the fund is allocated to the yearbook and provides each medical student with a copy of this publication. On registration all students are given a copy of *The Student Handbook* containing The Honor Code and The By-Laws of the Honor Council together with the By-Laws of the Student Council and the Professional School Student Senate.

### *Withdrawals and Refunds*

#### FORMAL WITHDRAWAL PROCEDURES

Students desiring to leave the School of Medicine at any time during the academic year are required to file with the Dean a written application for withdrawal. In addition, the student must secure an "Honorable Dismissal Release" form from the Dean's Secretary, and return this to the Dean's office appropriately signed by representatives of the departments listed thereon, together with his "matriculation certificate."

If these procedures are not completed, the student will not be entitled to honorable dismissal nor to refund of fees.

Students under 21 years of age must supplement the procedures previously described with the written consent of their parents or guardians.



## ACADEMIC STANDING ON WITHDRAWAL

Students who voluntarily withdraw during an academic semester will be given no credit.

Students are not permitted to resort to withdrawal in order to preclude current or impending failures. Their standing on withdrawal will be recorded in the Registrar's Office.

Students who withdraw from the School of Medicine, and later desire readmission, must apply to the Committee on Admissions, unless other arrangements have been consummated with the Dean's written consent.

## REFUNDS ON WITHDRAWAL

Students who are eligible to honorable dismissal will receive a refund of current charges, after the matriculation fee has been deducted, according to the following schedule:

PERIOD ELAPSED AFTER INSTRUCTION BEGINS	PERCENTAGE REFUNDABLE
Two weeks or less.....	80%
Between two and three weeks.....	60%
Between three and four weeks.....	40%
Between four and five weeks.....	20%
After five weeks.....	0

## Required Equipment

At the beginning of the first year a complete set of dissecting instruments is required. In addition, microscopes equipped with a mechanical stage and a sub-stage lamp are required. Microscopes must meet the standards described below.

A standard microscope made by Bausch & Lomb, Leitz, or Spencer fitted with the following attachments, meets the requirements.

16 mm., 10x, 0.25 N.A.—4.9 mm. working distance

4 mm., 43x, 0.65 N.A.—0.6 mm. working distance

1.8 mm., 97x, oil immersion, 1.25 N.A.—0.13 mm., working distance

Oculars: 10x and 5x Huygenian eyepieces

Triple nose pieces with 16 mm., 4 mm., and 1.9 mm., 125 N.A. oil immersion lens.

Wide aperture stage with quick screw condenser and built on, but detachable, ungraduated mechanical stage. Substage condenser, variable focusing type 1.25 N.A. with iris diaphragm. A rack and pinion focusing device is preferred.

## 12 Required Equipment

Students are cautioned with respect to the purchase of used or odd-lot microscopes since some older instruments are equipped with a 4 mm. (high dry) objective whose N.A. is marked as 0.85 N.A. This objective has such a short working distance (0.3 mm.) that it is difficult or impossible to focus through thick cover glasses or the standard hemocytometer cover glass without breakage. All microscopes are subject to inspection and approval by Dr. Frank H. J. Figge and Dr. Andrew G. Smith, Room 209, Bressler Building, 29 S. Greene Street. Such approval must be obtained before September 5. This inspection is usually not made during August.

Prior to beginning the second semester of the first year, each student should obtain a stethoscope, sphygmomanometer, and ophthalmoscope-otoscope. The Department of Physiology and the Division of Physical Diagnosis offer the following recommendations:

INSTRUMENT	RECOMMENDED TYPE	COMMENT
Stethoscope	Reiger-Bowles or Sprague-Bowles	Purchase thick-walled rubber tubing. The wall thickness and internal diameter should be 1/8 inch each.
Sphygmomanometer	Tycos-aneroid	Other types are also satisfactory but this has proved itself for all around reliability and durability.
Ophthalmoscope-otoscope	Welch-Allyn or	With closed (diagnostic) otoscope head and No. 106 May ophthalmoscope head (not deluxe).
	National	With closed (diagnostic) otoscope head and May ophthalmoscope head.

The following equipment, which is frequently sold in a packaged kit with the above instruments, will be needed for second year work in Physical Diagnosis.

Tuning fork	250 cycles per second	The large aluminum alloy type is preferred to the small stainless steel variety.
Reflex hammer	any simple type	Avoid specialized instruments with built in pins, brushes, etc.

Students in the second year class are also expected to provide themselves with short white lapel coats. Three button, 8 ounce sanforized duck coats are satisfactory.

# Prizes, Scholarships, Fellowships and Loan Funds

## *Prizes*

### THE FACULTY PRIZE

The faculty will award the Faculty Gold Medal and Certificate and five Certificates of Honor to the six highest ranking candidates for graduation who, during the four academic years, have exhibited outstanding qualifications for the practice of medicine.

### THE DR. A. BRADLEY GAITHER MEMORIAL PRIZE

A prize of \$25.00 is given each year by Mrs. A. Bradley Gaither as a memorial to the late DR. A. BRADLEY GAITHER, to the student in the fourth year class doing the best work in genito-urinary surgery.

### THE DR. LEONARD M. HUMMEL MEMORIAL AWARD

A gold medal and certificate of proficiency will be awarded annually as a memorial to the late DR. LEONARD H. HUMMEL, to the graduate selected by the Executive Committee of the faculty who has manifested outstanding qualifications in internal medicine.

### THE HARRY M. ROBINSON, SR. PRIZE

A prize of \$25.00 is given each year in honor of DR. HARRY M. ROBINSON, SR., *Professor Emeritus of Dermatology*, to the member of the fourth year class selected by the faculty who has done outstanding work in dermatology.

## *Scholarships*

A number of scholarships are available to members of the three upper classes with stipends ranging from \$100 to \$650 a year with the average about \$250. Specific information on any of these is available on inquiry to Room 102, Davidge Hall. All scholarships are awarded for one academic year and will be renewed only on application. Applications may be obtained in Room 102, Davidge Hall and should be returned before the end of the school year. They will be acted upon by the Faculty Committee on Scholarships and Loans shortly thereafter and the applicants notified of the de-

## 14 *Scholarships, Fellowships, & Loan Funds*

cision as promptly as possible. Awards are made on a competitive basis and academic proficiency is the primary consideration. Students who do not qualify for scholarships may apply for a student loan.

### *Warfield Freshman Merit Scholarships*

Scholarships with a stipend of \$650 are available to members of the first year class who are residents of Maryland and who have demonstrated outstanding potentiality for the study of medicine. Selection will be based on the applicant's college record, MCAT scores, and any other criteria available to the Committee, including their impression of the applicant at the time he was interviewed in connection with his application for admission to Medical School. The Committee reserves the right to withhold Scholarship awards if, in their opinion, there are no qualified applicants in the particular year under consideration. Individuals meeting the residency requirements may apply by writing to the Committee on Admissions after they receive an offer of a place in the incoming class, requesting that their name be given consideration. These scholarships are available to first year students only, and therefore are not renewable. Recipients may apply in later years for Medical School Scholarships open to upper classmen.

### *The Dr. John B. Weaver Fellowships*

The will of Dr. John B. Weaver, who died in 1929, authorized The Trustees of the Endowment Fund of the University of Maryland to establish fellowships in his name. Two such fellowships, each in the amount of \$1500.00, will be awarded annually to applicants who as physicians are full time fellows in research or teaching in the University of Maryland School of Medicine.

### *Summer Research Fellowships*

A number of summer research fellowships are available upon application to the Committee on Scholarships and Loans.

### *Loan Funds*

A number of loan funds are available to students who are in financial need and application may be made at any time, although most applications are made and considered shortly before the beginning of each semester. Except in unusual circumstances, loans from Medical School Funds are limited to \$400 a year. Loans are awarded on the basis of need and therefore a budget must be submitted with each application, along with the other supporting data. Most loans are repayable with interest at 2% in partial installments of 20% each, beginning two years after graduation. Interest with principal of the loan as repaid, will be used as a rotating loan fund. Application forms for all loans are available in Room 102, Davidge Hall and should be presented to Committee on Scholarships and Loans.

#### NATIONAL DEFENSE EDUCATION LOAN

The National Defense Education Act of 1958 provides funds for students' loans. A student may borrow in one year a sum not exceeding

\$1000 and during his entire course of study may borrow a sum not exceeding \$5000. The borrower must sign a note for the loan and agree to interest and repayment terms established by the University. Repayment of the loan begins one year after the borrower ceases to be a full time student and must be completed within ten years thereafter. No interest is charged on the loan until the beginning of the repayment schedule. Interest after that date is to be paid at the rate of 3% per annum.

The National Defense Education Act contains a provision which provides that up to 50% of a student loan plus interest may be cancelled in the event the borrower becomes a full time elementary or secondary school teacher. Such cancellation is to be at the rate of 10% a year up to 5 years.

#### MEMORIAL LOAN FUND OF THE CLASS OF 1916

This new loan fund was established by the Class of 1916 to honor its deceased members. Loans shall be made in the amount recommended by the Scholarship and Loan Committee but shall not be in excess of \$500 per student per school year. Interest shall be 2% per annum until one year after completion of recipients' educational and training program, after which time the loan is repayable within 5 years, during which 5 years it shall bear interest at 4% per annum.

#### STUDENT COUNCIL EMERGENCY LOAN FUND

The Student Council of the Medical School has established an emergency loan fund for all medical students. When funds are available loans are without interest, are limited to \$150, and must be repaid in 90 days.



# General Information

## *Student Organizations*

### STUDENT ACTIVITIES COMMITTEE

This committee serves to coordinate and integrate the activities of all student groups and to act as liaison between the student body and the faculty. Student members are: President of the Student Council, Class Presidents, Chairman of the Honor Council, President of the Student American Medical Association, President of the Interfraternity Council, President of Alpha Omega Alpha, President of the Woman's Auxiliary to Student American Medical Association, Editor of the Yearbook, Editor of the *S A M A Newsletter*, Chairman of the Orientation Committee. The Associate Dean for Student Affairs serves as Chairman and faculty members are appointed by the Dean.

### STUDENT COUNCIL

Each year the student body elects the Student Council which formulates and directs policies and activities of the student body and makes appropriate recommendations to the proper authorities. It is responsible for disbursement of the Student Activities Fund and arranges the social program for the year.

### HONOR COUNCIL

The Honor Council is responsible for interpretation and execution of the Honor Code. Acceptance of the provisions and obligation of this code is required of all students entering the medical school.

### PROFESSIONAL SCHOOL SENATE

The Professional Schools on the Baltimore Campus, including the Schools of Medicine, Law, Dentistry, Nursing, and Pharmacology formed a Professional School Senate in 1956, a representative body for the purpose of considering problems concerning these schools and presenting their recommendations to the proper University authorities. The Professional School Senate operates under its own By-Laws.

### STUDENT AMERICAN MEDICAL ASSOCIATION

The Student American Medical Association has a Chapter at Maryland and all medical students are eligible to join. This organization is designed

to prepare the future physician for full participation in organized medicine. The *S A M A Newsletter* is a monthly publication which covers medical school news and the latest developments in areas of vital concern to medical students.

#### WOMAN'S AUXILIARY, STUDENT AMERICAN MEDICAL ASSOCIATION

It was organized to help wives of medical students to prepare themselves to fulfill future responsibilities as wives of practicing physicians. It has promoted closer association among the wives and the auxiliary actively participates in many functions for the betterment of the medical school.

#### STUDENT COUNCIL INTRAMURAL ATHLETIC PROGRAM

Each year the Student Council sponsors an intramural athletic program which is designed to provide for the student a physical outlet from the stresses of constant study. The program consists of inter-class competition in tag football, basketball, softball, and tennis.

#### THE INTERFRATERNITY COUNCIL

Its purpose is to further the interests and improve the coordination and cooperation of the member groups. Each fraternity is represented by its president and social chairman. One of these representatives is chosen President for the school year on a rotating basis.

The Interfraternity Council organizes the Freshman Orientation Program, operates a used book and microscope store, and sponsors a yearly lectureship. The Interfraternity Council is represented on the Student Activities Committee.

#### THE YEARBOOK

This is the annual joint publication of the Schools of Medicine and Nursing. The yearbook, *Terra Mariae Medicus*, covers all the facets of student activities and is compiled by the students. As *Bones, Molars and Briefs*, the yearbook provides a continuous record of graduating classes as far back as 1896. It is the outstanding record of student life. The cost of the yearbook is included in the Student Activities Fee and all medical students are entitled to receive a copy without further charge.

### *Alpha Omega Alpha—National Medical Society*

The Beta Chapter of Maryland was established at the University of Maryland in 1949. Medical students possessing outstanding qualities of moral integrity, scholarship, and leadership are elected to membership in their third or fourth years. The society sponsors an annual lectureship and forum for presentation of medical student research.

### *Student Health Service*

JAMES R. KARNS, M.D. . . . . Director, Student Health Service

The Medical School has made provision for the systemic care of undergraduate medical students according to the following plan:

## 18 *General Information*

### PRELIMINARY EXAMINATION

All new students will be examined during the first week of the semester. Notice of the date, time, and place of the examination will be announced to the classes and posted on the bulletin board. The passing of this physical examination is necessary before final acceptance of any student.

### MEDICAL ATTENTION

Students in need of medical attention will be seen by the Director, Dr. James R. Karns, in his office on the second floor, Outpatient Department at 12 m. daily, except Saturday and Sunday. In case of necessity, students will be seen at their homes.

### HOSPITALIZATION

All students are required to have Blue Cross hospitalization insurance, or its equivalent.

### PHYSICAL DEFECTS

Prospective students are advised to have any known physical defects corrected before entering school in order to prevent loss of time which later correction might incur.

### LIMITATIONS

It is not the function of this service to treat chronic conditions contracted by the students before admission, nor to extend treatment of acute conditions arising in the period between academic years, unless the school physician recommends this service.

## *Housing*

A limited number of women students may obtain housing accommodations in the Louisa Parsons Hall, 622 West Lombard Street. It offers comfortable living accommodations and it is under the general supervision of the Dean of Women.

Bed linens, towels, pillows, blankets, and curtains are provided as part of the general furnishings of the room. Students are requested to bring their own bedspreads, an extra blanket, bureau scarves, small rugs, and a laundry bag. The individual student assumes responsibility for all dormitory property assigned to her. Any damage done to property other than that which results from ordinary wear and tear will be charged to the student concerned. Meals may be purchased at University cafeterias or in nearby restaurants.

### GENERAL INFORMATION FOR THE BALTIMORE UNION

The Baltimore Union for students of the Professional Schools is located adjacent to the Professional Schools at 621 West Lombard Street. Accommodations for 195 men are provided in a five-story, semi-air conditioned building which also contains a cafeteria, fountain lounge, meeting rooms, laundry facilities, game room, book store, barber shop, and lounges on each floor. Double rooms are available. The rental agreement is made for rooms

only; meals are served cafeteria style on a cash basis. The contract for accommodations covers the academic year. The rates are:

\$150.00 per semester per double room.

80.00 per eight weeks summer session per double room.

Other:

\$45.00 per month

Three single rooms are available. They will be assigned on the basis of length of residence in The Baltimore Union.

The rate shown above is per person and includes the following: Room furnishings, bed and cover, mattress, chest of drawers, closet, book shelves, desk, medicine cabinet, desk chair, and desk lamp. Maid service will include cleaning of room twice per week and replacement of change of linen once each week. Telephone service is available through the Chesapeake & Potomac Telephone Company. Cost of the telephone is not included in the room rate. Information can be obtained from the Manager's Office. Mail service is also provided. The student provides blankets, towels, pillow, and linens. Towels and linens must be rented through the designated Commercial Rental Service. A small amount of luggage space is available. Storage of anything other than luggage will not be available.

#### HOW TO APPLY FOR A ROOM ASSIGNMENT

Write: MANAGER'S OFFICE  
The Baltimore Union  
621 West Lombard Street  
Baltimore 1, Maryland



# Buildings and Facilities

## *Davidge Hall*

This hall, named after the first dean, Dr. John Beale Davidge, was the first building of the medical school to be erected. It was completed in 1812 and is a replica of the Pantheon in Rome. It is the oldest structure in this country from which the degree of Doctor of Medicine has been granted annually since its erection. It is located at the N. E. corner of Lombard and Greene Streets and houses the offices of the Dean, Associate Deans, the Committee on Admissions, the Postgraduate Committee, Medical Alumni Office, in addition to Chemical and Anatomical Halls.

## *Administration Building*

522 West Lombard Street contains the Baltimore offices of the Registrar and two lecture halls.

## *Bressler Research Laboratory*

The Frank C. Bressler Research Laboratory at 29 S. Greene Street, a memorial to a generous alumnus, was completed in 1940.

It houses in addition to research facilities of the departments of Medicine and Surgery, animal quarters, lecture hall, the Bressler Memorial Room, and the Baltimore Offices of the Board of Regents and the President of the University.

## *Medical Technology Building*

31 S. Greene Street houses the offices and laboratories of the departments of Pathology, Microbiology, and Biochemistry.

## *Health Sciences Library*

The Schools of Medicine, Dentistry, Pharmacy, and Nursing are served by the Health Sciences Library in a modern, four story library building completed in 1960. The oldest part of the library collection dates back to 1813 when the University of Maryland purchased the books of Dr. John Crawford to form a medical library. The present library contains about 86,000 bound volumes and regularly receives over 1600 scientific periodicals.

The library of the Medical and Chirurgical Faculty of Maryland and the Welch Medical Library are open to students of the School of Medicine without charge. Other libraries of Baltimore are the Peabody Library and the Enoch Pratt Free Library.

## *Personnel*

HOWARD ROVELSTAD, A.B., M.A., B.S.L.S.—*Director of Libraries and Professor of Library Science*

\*IDA MARIAN ROBINSON, A.B., B.S.L.S.—*Librarian and Associate Professor of Library Science*

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\* Certified Medical Librarian



\*HILDA E. MOORE, A. B., A.B.L.S.—Associate Librarian and Assistant Professor of Library Science

SARAH J. ATKINS—Cataloging Assistant

JEAN L. BADGER—Serials Assistant

MARIE M. CHAFFMAN—Assistant Circulation Librarian

JACQUELINE B. CLEM—Secretary to the Librarian

\*EDITH M. COYLE, A.B., A.B.L.S., M.A.—Head, Serials Department

RUTH E. HANNA, A.B., M.S.L.S.—Assistant Acquisitions Librarian

\*SIMONE C. HURST—Head, Circulation Department

\*FLORENCE R. KIRK—Reference Librarian

BETTY B. LINKOUS—Cataloging Assistant

HANS-GUENTHER R. LISTFELDT, B.S., M.S.L.S.—Assistant Serials Librarian

\*BEATRICE MARRIOTT, B.A.—Reference Librarian

\*ELEANOR M. MITTEN, B.S., B.S.L.S.—Head, Catalog Department

ELWOOD STERLING—Library Clerk

MARJORIE F. VILK, B.S. IN ED.—Cataloger

\* Certified Medical Librarian

## University Hospital

University Hospital is part of the University of Maryland. It is one of the oldest institutions for the care of the sick in the State of Maryland. It was opened in September 1823, under the name of the Baltimore Infirmary and at that time consisted of only four wards, one of which was reserved for patients with diseases of the eye.

In 1933-1934 the present University Hospital was erected with a capacity of 435 beds and 65 bassinets. In 1952-1953 a modern Psychiatric Institute Building was erected and a junctional wing was added to the general hospital. The new additions increased the hospital bed capacity to 659 beds and 70 bassinets devoted to general medicine, surgery, obstetrics, pediatrics, psychiatry, and the various medical and surgical specialties. Three hundred and forty-two are for ward patients.

The hospital buildings are situated opposite the Medical School buildings. The students, therefore, are in close proximity to the clinical facilities of the University Hospital. The hospital as planned, makes a particularly attractive teaching unit and is the major clinical teaching facility of the Medical School.

### EMERGENCY SERVICE

The Emergency Service of the hospital receives and treats a large number of emergency cases because of its proximity to the largest manufacturing and shipping districts of the city. During the past fiscal year a total of 35,803 patients were treated in the Emergency Room.

### OUT PATIENT DEPARTMENT

The Out Patient Department is in the old University Hospital. It has been remodeled to provide space and facilities for more than thirty clinics, the departments of X-ray, a pharmacy, laboratory, and other ancillary services. Admission policies are predicated upon the teaching requirements of the School of Medicine and the ward services of the University Hospital.

Visits to the various clinics of the Out Patient Department during the last fiscal year totaled 142,366.

# Affiliated Institutions

## *Mercy Hospital*

Mercy Hospital traces its history to the foundation of the Washington School of Medicine in 1824. In 1872 some of the members of this institution founded a new school, which was the beginning of the College of Physicians and Surgeons of Baltimore.

Washington School of Medicine opened a dispensary and a small hospital at the corner of Saratoga and Calvert Streets and named it the Baltimore City Hospital. This building served both as a hospital and a medical school. In 1874 the Sisters of Mercy, upon the invitation of Washington School of Medicine, assumed responsibility for the Nursing Services of the hospital. In 1876, Washington University merged with the College of Physicians and Surgeons.

In 1888 the Sisters of Mercy with the assistance of the Faculty of the College of Physicians and Surgeons laid the cornerstone of the present hospital. Since then the growing demands for more space have compelled the erection of addition after addition until now it accommodates 356 patients.

In 1909 the name Baltimore City Hospital was changed to Mercy Hospital.

The clinical material in the free wards is under the exclusive control of the University of Maryland School of Medicine and College of Physicians and Surgeons. One hundred ninety-three beds are allotted for teaching purposes.

During the year ended December 31, 1960, there were 13,176 general admissions, 27,985 dispensary visits, 2,491 obstetrical deliveries, and 18,183 emergency visits in the Accident Department.

Mercy Hospital is currently building a new 450-bed hospital on its present site.

## *The James Lawrence Kernan Hospital and Industrial School of Maryland For Crippled Children*

This institution is situated on an estate of 75 acres at Dickeyville. The site is within the northwestern city limits and of easy access to the city proper.

The location is ideal for the treatment of children, in that it affords all the advantages of sunshine and country air.

A hospital unit, complete in every respect, offers all modern facilities for the care of an orthopedic condition in children.

The hospital is equipped with 80 beds—endowed, and city and state supported.

The orthopedic dispensary at the University Hospital is maintained in closest affiliation and cares for the cases discharged from the Kernan Hospital. The Physical Therapy Department is very well equipped with modern apparatus and trained personnel. Occupational therapy has been fully established and developed under trained technicians.

# Historical Sketch

The School of Medicine of the University of Maryland, the fifth medical school to be founded in the United States, filled a great need for such an institution in the Baltimore area. On December 18, 1807, the General Assembly of the State of Maryland passed "*An Act for Founding a Medical College in the City or Precincts of Baltimore for the Instruction of Students in the Different Branches of Medicine.*" The philosophy of the founding fathers and the principles upon which the school was established have not changed. This is aptly expressed in the opening paragraphs of the Founding Act: WHEREAS . . . it appears to the General Assembly that many benefits would accrue, not only to the State of Maryland but to many other parts of the United States, from the establishment of a seminary for the promotion of medical knowledge in the City of Baltimore, therefore, Be It Enacted . . . That a College . . . by the name of The College of Medicine of Maryland, be established . . . upon the following fundamental principles. . . . The said College shall be founded and maintained forever upon a most liberal plan, for the benefit of students of every country and every religious denomination, who shall be freely admitted to equal privileges and advantages of education, and to all the honors of the College, according to their merit, without requiring or enforcing any religious or civil tests."

The direction of the College of Medicine was vested in a Board known as "The Regents of the College" comprising the Board of Medical Examiners, the President and Professors of the College.

Dr. John Beale Davidge was selected as the first dean of the school. Under his farsighted leadership the original faculty formulated a new concept of medical education: "The science of medicine could not be successfully taught under the usual organization of medical schools; that without the aids of physiology and pathology, either associated with anatomy or as a separate chair of institutes, the philosophy of the body in sickness or in health could not be understood."

The first session of the College was not complete and lectures were delivered in the homes of Dr. Davidge, other members of the faculty, and at the Almshouse. From the beginning the School was fortunate in having patients at the Almshouse for use in bedside teaching.

The first recorded public graduation was in 1810 with five graduates listed, three from Maryland and two from Virginia.

At the end of 1807 there was, in Baltimore, a medical college with officers and faculty but no buildings or money. A lottery was authorized in the amount of \$10,000, which was subsequently increased to \$40,000. The faculty contributed what it could and interested citizens helped to raise funds with which to begin the school and provide for its maintenance.

The location selected for the College of Medicine was the northeast corner of Lombard and Greene Streets on property owned by Col. John Eager Howard of Revolutionary War fame. Mr. R. Cary Long, an eminent architect, drew plans for the beautiful replica of the Pantheon which stands today and houses the two old amphitheatres, the offices of the Dean, the Alumni Association, Postgraduate Committee, and other administrative offices. This building was first occupied late in the year of 1812. It is the oldest building in this country from which the degree of Doctor of Medicine has been granted annually since its erection. In this building one of the first medical school libraries in the United States was founded.

The Faculty and Regents endeavored constantly to improve the curriculum and teaching facilities. New faculty members were secured and new methods were introduced in the school. Dr. John Crawford, one of the new faculty members, vaccinated Baltimoreans against smallpox during 1800, while Dr. Waterhouse was doing the same for citizens of Boston. As early as 1810 he presented evidence that tuberculosis was contagious. His personal library became the nucleus of the present Medical School Library.

In 1812 the General Assembly authorized founding of the additional Schools of Law, Divinity, and Arts and Sciences. The University of Maryland School of Medicine was unique in the history of education, since the medical school preceded the undergraduate and other professional schools.

The Baltimore Infirmary, the forerunner of the University Hospital, was built in 1823. The School was one of the first to have its own hospital for clinical instruction, and it was here that intramural residency for senior students was first established.

There were many "firsts" through the years. The study of human anatomy was recognized as basic for the acquisition of medical knowledge, but dissection was limited by the difficulty in obtaining bodies. The trustees recommended compulsory dissection as early as 1833, but the faculty did not enforce the recommendation until 1848, the first medical school in the country with such a requirement. Finally, enactment of the Anatomy Law provided unclaimed bodies to the medical schools for dissection (1882). At the College of Medicine of Maryland instruction was given in Dentistry (1837) and in the techniques of auscultation and percussion (1841) for the first time in America. In 1844 Dr. David Stewart, the first professor of pharmacy in the United States, initiated his lectures at the School, and compulsory courses in Experimental Physiology and Microscopy were introduced in 1854. The first independent chairs for teaching Diseases of Women and Children (1867) and Diseases of the Eye and Ear (1873) were established. Systematic clinical instruction in Nervous Diseases was instituted in 1869.

The Faculty and Regents recognized the need for medical education to include areas other than the sciences. In 1891 a rule was adopted which required



each student to complete successfully a preliminary examination in English before being admitted.

At the time of the charter the course of instruction was only four months. In 1848 it was increased to four and a half months and attendance at two sessions was required. In 1891 the period of instruction was increased to three years and in 1896 all Doctor of Medicine candidates were required to complete a four year course of instruction.

Graduate programs were offered as early as 1860 and a special ten weeks summer course was given in 1870. These were the initial Postgraduate courses which have continued to the current era.

Honorary degrees have been conferred upon outstanding persons on rare occasions. The honorary M. D. degree conferred upon Dr. Ephraim McDowell by the University of Maryland School of Medicine in 1825 was his only degree. The Marquis de Lafayette was awarded the honorary degree of LL.D. during his visit to America in 1824.

The University of Maryland School of Medicine enjoys a rich heritage bequeathed by two other medical schools and their affiliated hospitals. Mergers with the Baltimore Medical College in 1913 and the College of Physicians and Surgeons in 1915 provided the University of Maryland School of Medicine with greatly expanded faculty and clinical facilities.

The state University was established in 1920 when the professional schools in Baltimore merged with the Maryland State College of Agriculture at College Park, Maryland. The state of Maryland assumed the financial obligation of all of the schools.

Throughout the many years since the Medical School's founding the prime emphasis has been placed on fitting men and women for the practice of medicine. Significant research contributions were made by many graduates although systematic programs of experimentation received greater emphasis in the latter years, especially since the erection of the Bressler Research Laboratory in 1939-40.

Women first entered the Medical School in 1921. There were six women in the 1922 class, two of whom completed the four year course of study. The School was integrated racially almost from the beginning and students of most races have completed the course of study and graduated.



# Administration

## BOARD OF REGENTS AND MARYLAND STATE BOARD OF AGRICULTURE

		<i>Term Expires</i>
<i>Chairman</i>	CHARLES P. MC CORMICK—McCormick and Company, 414 Light Street, Baltimore 2	1966
<i>Vice-Chairman</i>	EDWARD F. HOLTER—The National Grange 744 Jackson Place, N. W., Washington 6, D.C.	1968
<i>Secretary</i>	B. HERBERT BROWN—The Baltimore Institute, 10 West Chase Street, Baltimore 1	1968
<i>Treasurer</i>	HARRY H. NUTTLE—Denton, Md.	1966
<i>Assistant Secretary</i>	LOUIS L. KAPLAN—5800 Park Heights Avenue, Baltimore 15	1969
	RICHARD W. CASE—Commercial Credit Building, Baltimore 2	1967
	THOMAS W. PANGBORN—The Pangborn Corp. Pangborn Boulevard, Hagerstown, Md.	1965
	THOMAS B. SYMONS—Suburban Trust Co. 6950 Carroll Avenue, Takoma Park, Md.	1963
	C. EWING TUTTLE—907 Latrobe Building, Charles and Read Streets, Baltimore 2	1962
	WILLIAM C. WALSH—Liberty Trust Building, Cumberland, Md.	1968
	MRS. JOHN L. WHITEHURST—4101 Greenway, Baltimore 18	1967

Members of the Board are appointed by the Governor of the State for terms of nine years each, beginning the first Monday in June.

The President of the University of Maryland is, by law, Executive Officer of the Board.

The State law provides that the Board of Regents of the University of Maryland shall constitute the Maryland State Board of Agriculture.

OFFICERS OF ADMINISTRATION OF THE  
SCHOOL OF MEDICINE

WILSON H. ELKINS, B.A., M.A., LITT.B., D.PHIL.  
*President*

WILLIAM S. STONE, M.S., M.D., D.SC.  
*Director, Medical Education and Research, and Dean*

DIETRICH C. SMITH, B.A., M.A., PH.D.  
*Associate Dean, Admissions and Student Affairs*  
*Registrar*

G. WATSON ALGIRE, M. S.,  
*Director of Admissions and Registrations*

# Faculty Boards and Committees

## FACULTY BOARD

DR. WILLIAM S. STONE, *Chairman*

DR. DIETRICH C. SMITH, *Vice-Chairman*

<i>Members</i>	<i>Alternates</i>	<i>Term Expires</i>
<i>Anesthesiology</i>		
DR. PAUL HACKET	DR. NORMAN HOLLINGSWORTH	1962
<i>Anatomy</i>		
DR. HENRICUS KUYPERS	DR. VERNON E. KRAHL	1961
DR. ELWYN A. SAUNDERS	DR. THEODORE LEVEQUE	1963
<i>Biological Chemistry</i>		
DR. ARTHUR J. EMERY, JR.	MISS VIRGINIA BROWN	1962
<i>Medicine</i>		
DR. JAMES KARNs	DR. LEONARD SCHERLIS	1961
DR. VERNON M. SMITH	DR. EDWARD COTTER	1962
DR. CHARLES SHAW	DR. ROBERT SINGLETON	1963
<i>Microbiology</i>		
DR. WILLIAM F. MYERS	DR. OLLIE R. EYLAR, JR.,	1961
<i>Obstetrics-Gynecology</i>		
DR. JOSE VALDEROS	DR. J. HUFF MORRISON	1962
DR. J. KING B. E. SEEGAR, JR.	DR. HUGH MC NALLY	1963
<i>Pathology</i>		
DR. JOHN B. ANTONIUS	DR. LESTER KIEFER	1963
<i>Pediatrics</i>		
DR. A. FINKELSTEIN	DR. MARTIN K. GORTEN	1961
DR. RAYMOND CLEMMENS	DR. MELCHIJAH SPRAGINS	1962
DR. RAY HEPNER	DR. THOMAS A. GOOD	1963
<i>Pharmacology</i>		
DR. EDWARD B. TRUITT	DR. RAYMOND BURGISON	1962
<i>Physiology</i>		
DR. SHELDON GREISMAN	DR. LEO M. KARPELES	1961

<i>Members</i>	<i>Alternates</i>	<i>Term Expires</i>
<i>Preventive Medicine</i>		
DR. AUBREY RICHARDSON	DR. PAUL RICHARDSON	1963
<i>Psychiatry</i>		
DR. GERALD KLEE	DR. BENJAMIN POPE	1962
DR. RUSSELL MONROE	DR. JOSEPH BIERMAN	1961
DR. WILLIAM HOLDEN	DR. WALTER WEINTRAUB	1963
<i>Radiology</i>		
DR. CHARLES DAVIDSON	DR. ROBERT BOUDREAU	1962
<i>Surgery</i>		
DR. GEORGE YEAGER	DR. DAVID R. WILL	1961
DR. KARL F. MECH	DR. EDWIN H. STEWART, JR.	1961
DR. DANIEL J. PESSAGNO	DR. ARLIE R. MANSBERGER	1962
DR. WILLIAM H. MOSBERG, JR.	DR. EUGENE LINBERG	1963
HOSPITAL MEDICAL BOARD		
DR. THURSTON R. ADAMS		1961
DR. JAMES KARNS		1961
ALUMNI ASSOCIATION		
DR. ERNEST CORNBROOKS		1962
DR. ARTHUR SIWINSKI		1962

# STATUS MEMBERS

## Dean's Office

DR. WILLIAM S. STONE.....	Dean
DR. DIETRICH C. SMITH.....	Associate Dean
MR. LADISLAUS GRAPSKI.....	Associate Dean

# DEPARTMENTAL HEADS

DR. WILLIAM D. BLAKE.....	Physiology
DR. J. EDMUND BRADLEY.....	Pediatrics
DR. ROBERT W. BUXTON.....	Surgery
DR. JOHN M. DENNIS.....	Radiology
DR. FRANK H. J. FIGGE.....	Anatomy
DR. EUGENE B. BRODY.....	Psychiatry
DR. HARLAN I. FIRMINGER.....	Pathology
DR. ARTHUR L. HASKINS.....	Obstetrics-Gynecology
DR. MARTIN HELRICH.....	Anesthesiology
DR. JOHN C. KRANTZ, JR.....	Pharmacology
DR. RICHARD D. RICHARDS.....	Ophthalmology
DR. GEORGE ENTWISLE.....	Preventive Medicine
DR. PATRICK B. STOREY.....	Post-Graduate Committee
DR. EDWARD J. HERBST	
(ACTING HEAD) .....	Biological Chemistry
DR. CHARLES L. WISSEMAN, JR...	Microbiology
DR. THEODORE E. WOODWARD...	Medicine

# DIVISIONAL HEADS

## Medicine

DR. MILTON SACKS.....	Clinical Pathology
DR. CHARLES VAN BUSKIRK.	Neurology

*Radiology*

DR. JOHN M. DENNIS.....Diagnosis  
DR. FERNANDO BLOEDORN...Therapy

*Surgery*

DR. JAMES G. ARNOLD, JR...Neurological Surgery  
DR. R. ADAMS COWLEY....Thoracic Surgery

MEDICAL LIBRARY

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EXECUTIVE COMMITTEE OF THE FACULTY

DR. WILLIAM S. STONE.....*Dean—Chairman*  
DR. DIETRICH C. SMITH.....*Associate Dean*  
MR. LADISLAUS GRAPSKI.....*Associate Dean—*  
*Hospital Director*

DR. WILLIAM D. BLAKE  
DR. J. EDMUND BRADLEY  
DR. EUGENE B. BRODY  
DR. ROBERT W. BUXTON  
DR. EDWARD F. COTTER  
DR. JOHN M. DENNIS  
DR. GEORGE ENTWISLE  
DR. FRANK H. J. FIGGE  
DR. HARLAN I. FIRMINGER  
DR. ARTHUR L. HASKINS  
DR. MARTIN HELRICH  
DR. EDWARD J. HERBST  
DR. VERNON KRAHL  
DR. JOHN C. KRANTZ, JR.  
DR. JEROME K. MERLIS  
DR. RICHARD D. RICHARDS  
DR. ROBERT SCHULTZ  
DR. PATRICK B. STOREY  
DR. CHARLES L. WISSEMAN, JR.  
DR. THEODORE E. WOODWARD

MEMBERS OF THE UNIVERSITY SENATE

DR. J. EDMUND BRADLEY	1961
DR. HARLAN I. FIRMINGER	1961
DR. JOHN C. KRANTZ, JR.	1961
DR. SAMUEL T. R. REVELL, JR.	1961
DR. GEORGE ENTWISLE	1962
DR. ARTHUR L. HASKINS	1962
DR. EDWARD J. HERBST	1962
DR. CYRUS L. BLANCHARD	1962
DR. SAMUEL P. BESSMAN	1963
DR. THOMAS CONNOR	1963
DR. VERNON E. KRAHL	1963
DR. ANDREW G. SMITH	1963
DR. WILLIAM S. STONE, <i>Ex-Officio</i>	



# Faculty 1960-1961

## *Emeriti*

- H. BOYD WYLIE, M.D., *Professor of Biochemistry and Dean, Emeritus*  
THOMAS R. CHAMBERS, A.B., M.D., *Associate Professor of Surgery, Emeritus*  
LOUIS H. DOUGLASS, M.D., *Professor of Obstetrics, Emeritus*  
EDGAR B. FRIEDENWALD, M.D., *Professor of Clinical Pediatrics, Emeritus*  
ANDREW C. GILLIS, M.A., M.D., D.SC., LL.D., *Professor of Neurology, Emeritus*  
FRANK W. HACHTEL, M.D., *Professor of Bacteriology, Emeritus*  
J. MASON HUNDLEY, JR., M.D., *Professor of Gynecology, Emeritus*  
F. L. JENNINGS, M.D., *Professor of Clinical Surgery, Emeritus*  
CHARLES W. MAXSON, M.D., *Associate Professor of Surgery, Emeritus*  
HARRY M. ROBINSON, SR., M.D., *Professor of Dermatology, Emeritus*  
HUGH R. SPENCER, M.D., *Professor of Pathology, Emeritus*  
W. HOUSTON TOULSON, M.D., *Professor of Urology, Emeritus*  
HENRY J. WALTON, M.D., *Professor of Roentgenology, Emeritus*  
WALTER C. WISE, M.D., *Professor of Surgery, Emeritus*  
WAITMAN F. ZINN, M.D., *Professor of Otolaryngology, Emeritus*

## *Active*

### **Anatomy**

- FRANK H. J. FIGGE, *Professor of Anatomy and Head of the Department; B.A., Colorado College, 1927; Ph.D., University of Maryland, 1934.*
- RAYMOND MELVIN ATKINS, *Instructor in Clinical Anatomy; M.D., University of Maryland, 1952.*
- ROBERT PAGE BOUDREAU, *Assistant Professor; B.A., Princeton University, 1943; M.D., Syracuse University, 1946.*
- HARRY C. BOWIE, *Associate in Clinical Anatomy; B.S., University of Maryland, 1933; M.D., 1936.*
- OTTO C. BRANTIGAN, *Professor of Clinical Anatomy; B.S., Northwestern University, 1931; M.D., 1934.*
- THEODORE R. CARSKI, *Instructor; B.A., Johns Hopkins University, 1952; M.D., University of Maryland, 1956.*
- CHARLES G. CRISPENS, JR., *Instructor; B.S., Pennsylvania State University, 1953; M.S., Ohio State University, 1955; Ph.D., Washington State University, 1959.*
- VERNON E. KRAHL, *Professor of Anatomy; B.S., University of Pittsburgh, 1939; M.S., 1940; Ph.D., University of Maryland, 1946.*

HENRICUS G. J. M. KUYPERS, *Associate Professor*; Ph.D., University of Leiden, 1952; M.D., 1954.

HENRY E. LANGENFELDER, *Assistant*; B.A., Johns Hopkins University, 1947; M.D., Hahnemann Medical College, 1951.

THEODORE F. LEVEQUE, *Associate Professor*; B.A., University of Denver, 1949; M.S., 1950; Ph.D., University of Colorado, 1954.

ROBERT E. MARTIN, *Instructor in Clinical Anatomy*; M.D., Washington University School of Medicine, 1954.

KARL FREDERICK MECH, *Assistant Professor*; B.S., University of Maryland, 1932; M.D., 1935.

ENRIQUE RAMON-MOLINER, *Research Assistant Professor*; M.D., Facultad de Medicina, Madrid, Spain, 1956.

WALLE J. H. NAUTA, *Professor of Anatomy*; M.D., University of Utrecht, 1942; Ph.D., 1945.

ROSS Z. PIERPONT, *Associate in Clinical Anatomy*; B.S., University of Maryland, 1939; M.D., 1940.

HERBERT E. REIFSCHNEIDER, *Associate in Clinical Anatomy*; B.A., Johns Hopkins University, 1922; M.D., University of Maryland, 1927.

ELWYN A. SAUNDERS, *Assistant Professor*; B.S., The Citadel, 1949; M.S., Graduate School of Medical College of South Carolina, 1952; M.D., Medical College of South Carolina, 1955.

WILLIAM BOOTH SETTLE, *Assistant Professor of Clinical Anatomy*; B.A., University of Pennsylvania, 1930; M.D., 1933.

WILLIAM WALLACE WALKER, *Associate Professor of Clinical Anatomy*; B.S., West Virginia University, 1921; M.D., University of Maryland, 1923.

### Research Assistant

THOMAS A. BURNS

### Graduate Student Assistants

JEANNETTE FORSYTH

PETER C. FUCHS

C. BOYD PFEIFFER

### Graduate Students Majoring in Anatomy

JOHN L. ECHTERNACH

JEANNETTE FORSYTH

PETER C. FUCHS

JASON M. MASTERS

JOSEPH L. MAZALESKI

JOHN O. MORRISON

C. BOYD PFEIFFER

BEVERLY L. REYNOLDS

CARL K. UYEDA

### Fellows

JEANNETTE FORSYTH

### Summer Fellows—1960

ROBERT M. BEAZLEY

RICHARD J. BELINIC

NIJOLE BRAZAUSKAS

ROBERT E. DINKER

JEANNETTE H. FORSYTH

JOEL S. GORDON

DAVID R. HESS

ARNOLD J. HOFFMAN

RALPH P. MERCHANT

STANLEY L. MINKEN

DAVID M. NICHOLS

C. BOYD PFEIFFER

### Medical Student

#### Assistants—1960-1961

ARNOLD J. HOFFMAN

MICHAEL E. PELCZAR

### Anesthesiology

MARTIN HELRICHI, *Professor and Head of the Department of Anesthesiology*; B.S., Dickinson College, 1946; M.D., University of Pennsylvania, 1946.

FRANCO COMPAGNONE, *Instructor*; Lycee, 1943; M.D., University of Rome, 1950.

THOMAS J. DEKORNFELD, *Instructor*; B.S., George Washington University, 1948; M.S., 1949; M.D., Harvard Medical School, 1953.

JOHN T. DOMANN, *Instructor*; B.S., University of Wisconsin, 1951; M.D., George Washington University, 1956.

MARTIN I. GOLD, *Instructor*; B.A., University of Pennsylvania, 1950; M.D., State University of New York, College of Medicine, Brooklyn, 1954.



Davidge Hall, named after the first Dean, Dr. John Beale Davidge, was the first building of the Medical School to be erected. Located at the N.E. corner of Lombard and Greene Streets, it is the oldest structure in this country from which the degree, Doctor of Medicine, has been granted annually since its completion in 1812.





*The Frank C. Bressler Research Laboratory is located at 29 South Greene Street, opposite the entrance to University Hospital.*

THOMAS D. GRAFF, *Clinical Instructor of Anesthesiology*; A.B., Haverford College, 1949; M.D., Temple University, 1953.

PAUL R. HACKETT, *Professor of Anesthesiology*; B.A., Denison University, 1945; M.D., Western Reserve University, 1949.

NORMAN B. HOLLINGSWORTH, *Assistant Professor*; B.S., New York University, 1948; M.D., New York Medical College, 1952.

TSUGIMORI HOSONO, *Instructor*; B.S., Keiogijuku College, 1948; M.D., Keiogijuku University, 1952.

WALTER LEVY, *Instructor*; M.D., University of Maryland, 1929.

ALFRED T. NELSON, *Clinical Professor of Anesthesiology*; M.D., University of Maryland, 1943.

ALBERT PATS, *Instructor*; B.S., University of Maryland, 1950; M.D., 1954.

OTTO C. PHILLIPS, *Clinical Associate Professor of Anesthesiology*; A.B., Johns Hopkins University, 1938; M.D., University of Maryland, 1942.

JOSEPH REDDING, *Instructor*; A.B., University of North Carolina, 1943; M.D., University of Maryland, 1948.

PETER SAFAR, *Clinical Associate Professor of Anesthesiology*; M.D., University of Vienna, 1948.

CALBERT T. SEEBERT, *Instructor*; M.D., Jefferson Medical College, 1951.

THEODORE E. STACY, JR., *Clinical Instructor in Anesthesiology*; Ph.D., University of Maryland, 1923; M.D., 1928.

### Summer Fellow

GERALD A. MILLER

## Biological Chemistry

EDWARD JOHN HERBST, *Professor of Biological Chemistry and Acting Head of the Department*; B.S., University of Wisconsin, 1943; M.S., 1944; Ph.D., 1949.

SAMUEL P. BESSMAN, *Associate Professor*; M.D., Washington University, 1944.

ANN VIRGINIA BROWN, *Instructor*; A.B., Goucher College, 1940.

GEORGE D. DUDA, *Instructor*; B.S., City College of New York, 1951; Ph.D., Duke University, 1958.

ARTHUR J. EMERY, JR., *Associate Professor*; B.S., Bucknell University, 1946; Ph.D., University of Rochester, 1954.

ENNIS C. LAYNE, *Lecturer*; B.S., George Washington University, 1950; M.S., 1953; Ph.D., 1955.

### Fellows

JOSEPH COLBOURN, *Fellow*.

WILLIAM FISHBEIN, *Fellow*.

LAURA ANNE HOCKLEY, *Fellow*.

BERNARD KARPERS, *Part-Time Fellow*.

MICHAEL KILCHENSTEIN, *Fellow*.

STEPHEN LESKO, JR., *Fellow*.

CARLETON LINDGREN, *Part-Time Fellow*.

DAVID SCHATANOFF, *Fellow*.

MORTON SCHMUKLER, *Fellow*.

GEORGE H. THOMAS, *Fellow*.

PAUL TOCCI, *Fellow*.

## Biophysics

LORIN J. MULLINS, *Professor of Biophysics and Head of Department*; B.S., University of California, 1937; Ph.D., 1940.

RAYMOND A. SJODIN, *Associate Professor*; B.S., California Institute of Technology, 1951; Ph.D., University of California, 1955.

## Medicine

THEODORE E. WOODWARD, *Professor of Medicine and Head of the Department*; B.S., Franklin and Marshall College, 1934; M.D., University of Maryland, 1938; D.Sc., (Hon.), Western Maryland College, 1950; D.Sc. (Hon.), Franklin and Marshall College, 1954.

CONRAD B. ACTON, *Associate in Medicine*; B.S., Haverford College, 1925; M.D., Johns Hopkins University, 1929.

MARIE AMELIA ANDERSCH, *Associate Professor of Biochemistry in Medicine*; B.S., University of Illinois, 1926; M.S., State University of Iowa; Ph.D., 1934.

ANDERS W. ANDERSON, *Assistant in Medicine*; D.D.S., University of Maryland, 1921; M.D., 1929.



- REUBIN ANDRES, *Assistant Professor of Medicine*; M.D., Southwestern Medical College, 1944.
- LEON ASHMAN, *Associate in Medicine*; B.S., College of the City of New York, 1927; M.D., University of Maryland, 1932.
- DAVID BACHARACH, *Instructor in Dermatology and Syphilology*; B.A., St. John's College, 1938; M.D., University of Maryland, 1942.
- EDMUND GEORGE BEACHAM, *Assistant Professor of Medicine*; B.S., University of Maryland, 1936; M.D., 1940.
- RAY J. BEASLEY, *Instructor in Medicine*; M.D., Johns Hopkins University, 1949.
- GEORGE BECK, *Assistant in Medicine*; A.B., Western Maryland College, 1949; M.D., University of Maryland, 1953.
- EUGENE SYDNEY BERESTON, *Associate Professor of Dermatology*; B.A., Johns Hopkins University, 1933; M.D., University of Maryland, 1937; M.S., University of Pennsylvania, 1945; D.Sc., 1955.
- LOUIS VARDEE BLUM, *Associate in Medicine*; B.A., University of Delaware, 1930; M.D., University of Maryland, 1934.
- FRANCIS JOSEPH BORGES, *Assistant Professor of Medicine and Assistant Head of Hypertensive Clinic*; B.S., Loyola College, 1946; M.D., University of Maryland, 1950.
- JOSEPH B. BRONUSHAS, *Assistant in Medicine*; B.S., Loyola College, 1946; M.D., University of Maryland, 1950.
- HOWARD MATHESON BUBERT, *Associate Professor of Medicine*; M.D., University of Maryland, 1920.
- WILLIAM ROSS BUNDICK, *Associate in Dermatology*; M.D., University of Maryland, 1941.
- BERNARD BURGIN, *Instructor in Medicine*; B.A., University of Cincinnati, 1936; M.D., 1939.
- MARSHALL PAUL BYERLY, *Associate in Medicine*; M.D., University of Maryland, 1925.
- GORDON CADER, *Instructor in Medicine*; M.D., Johns Hopkins University, 1948.
- T. NELSON CAREY, *Professor of Clinical Medicine*; M.D., University of Maryland, 1927.
- DOUGLASS G. CARROL, *Assistant Professor of Medicine*; A.B., Yale University, 1937; M.D., Johns Hopkins University, 1942.
- FRANCIS P. CHINARD, *Assistant Professor of Medicine*; A.B., University of California, 1937; M.D., Johns Hopkins University, 1941.
- GERARD CHURCH, *Instructor in Medicine*; M.B., Ch.B., University of Glasgow, 1951; F.R.F.P.S. (G), 1956.
- B. STANLEY COHEN, *Instructor in Medicine*; M.D., University of Maryland, 1947.
- JONAS H. COHEN, *Associate in Medicine*; B.A., Johns Hopkins University, 1936; M.D., 1940.
- MORRIS M. COHEN, *Assistant Professor of Dermatology*; B.S., M.D., University of Pittsburgh, 1937.
- THOMAS B. CONNOR, *Associate Professor of Medicine and Head, Division of Endocrinology and Metabolism*; A.B., Loyola College, 1943; M.D., University of Maryland, 1946.
- ELMER ELLSWORTH COOK, JR., *Assistant in Medicine*; B.A., University of Maryland, 1940; M.D., 1943.
- EDWARD F. COTTER, *Associate Professor of Medicine; Associate in Neurology*; M.D., University of Maryland, 1935.
- WILLIAM F. COX, III, *Associate in Medicine*; A.B., Amherst College, 1946; M.D., Jefferson Medical College, 1947.
- ERNEST CROSS, JR., *Instructor in Medicine*; A.B., Johns Hopkins University, 1937; M.D., 1941.
- JOHN R. DAVIS, *Instructor in Medicine*; B.A., West Virginia University, 1938; M.D., University of Maryland, 1942.
- MARVIN H. DAVIS, *Assistant in Medicine*; A.B., Johns Hopkins University, 1940; M.D., 1943.
- JOHN BURLING DE HOFF, *Associate in Medicine*; A.B., Johns Hopkins University, 1935; M.D., 1939.
- WINSTON C. DUDLEY, *Instructor in Medicine*; B.A., Oberlin College, 1943; M.D., University of Maryland, 1951.
- ROBERT G. DUVAL, JR., *Instructor in Medicine*; M.D., University of Maryland, 1947.

- JOHN SHELDON EASTLAND, *Associate Professor of Medicine*; A.B., Johns Hopkins University, 1921; M.D., University of Maryland, 1925.
- WILLIAM CARL EBELING, III, *Assistant Professor of Medicine and Head, Division of Gastroenterology*; B.S., University of Maryland, 1943; M.D., 1944.
- PATRICIA A. ELISBERG, *Assistant Instructor in Experimental Medicine and Pediatrics*; B.A., Agnes Scott College, 1945; M.D., Tulane University, 1950.
- FRANCIS A. ELLIS, *Associate Professor of Dermatology*; B.A., Johns Hopkins University, 1921; M.D., University of Maryland, 1925.
- GEORGE ENTWISLE, *Assistant Professor of Medicine*; B.S., University of Massachusetts, 1944; M.D., Boston University, 1948.
- WILLIAM C. ESMOND, *Assistant in Medicine*; B.S., University of Maryland, 1940; M.D., 1951.
- WILLIAM L. FEARING, *Associate in Neurology*; M.D., University of Maryland, 1934.
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- SOLOMON SMITH, *Assistant Professor of Medicine*; A.B., Johns Hopkins Uni-



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- VERNON SMITH, *Professor of Clinical Medicine*; M.D., Temple University, 1949.
- JOHN W. SNYDER, *Instructor in Medicine*; M.D., University of Maryland, 1934.
- MERRILL J. SNYDER, *Associate Professor of Medicine in Clinical Microbiology*; B.S., University of Pittsburgh, 1940; M.S., University of Maryland, 1950; Ph.D., 1953.
- WILLIAM C. SPEED, III, *Instructor in Medicine*; B.S., Trinity College, 1940; M.D., Johns Hopkins University, 1943.
- WILLIAM S. SPICER, JR., *Associate Professor of Medicine and Head, Division of Pulmonary Diseases*; M.D., University of Kansas, 1949.
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## 40 Faculty

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- THOMAS CLYDE WEBSTER, *Assistant*; B.S., University of Maryland, 1938; M.D., 1943.
- PAUL C. WEINBERG, *Assistant*; M.D., University of Buffalo, 1948.
- GEORGE E. WELLS, JR., *Assistant*; A.B., Johns Hopkins University, 1947; M.D., 1951.
- EARLE M. WILDER, *Assistant*; B.S., University of Maryland, 1930; M.D., 1934.
- FREDERICK M. ZERZAVY, *Assistant*; M.C., Masaryk University, Brno., 1939; M.D., University of Zagreb, Yugoslavia, 1942.

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## Ophthalmology

- RICHARD D. RICHARDS, *Professor and Head of the Department*; A.B., University of Michigan, 1948; M.D., 1951; M.Sc., State University of Iowa, 1957.

- SAMUEL L. FOX, *Assistant Professor*; B.S., University of Maryland, 1936; M.D., 1938.

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- MICHA KIM

## Pathology

- HARLAN I. FIRMINGER, *Professor of Pathology and Head of the Department*; A.B., Washington University, 1939; M.D., 1943.
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- THOMAS J. BURKART, *Assistant Professor of Pathology*; B.S., Loyola College, 1949; M.D., University of Maryland, 1953.
- HOWARD DORFMAN, *Instructor in Pathology*; B.A., New York University, 1947; M.D., State University of New York, 1951.
- RUSSELL S. FISHER, *Professor of Forensic Pathology and Head, Division of Forensic Pathology*; B.S., Georgia School of Technology, 1937; M.D., Medical College of Virginia, 1942.
- HENRY C. FREIMUTH, *Associate Professor of Forensic Pathology*; B.S., College of the City of New York, 1932; M.S., New York University, 1933; Ph.D., 1938.
- PAUL F. GUERIN, *Assistant Professor of Forensic Pathology*; A.B., Wittenburg College, 1942; M.D., University of Pennsylvania, 1945.
- LESTER KIEFER, *Assistant Professor of Pathology*; B.S., University of Maryland, 1943; M.D., University of Pennsylvania, 1953.
- WALTER B. KING, *Assistant Professor of Forensic Pathology*; A.B., University of California, 1948; M.D., Stanford University School of Medicine, 1954.
- CLAIRE KNAACK, *Instructor in Pathology*; B.A., College Jesus-Marie, Montreal, 1950; M.D., University of Montreal, 1955.
- RICHARD LINDENBERG, *Associate Professor of Forensic Pathology*; M.D., University of Berlin, 1944.

WILLIAM V. LOVITT, JR. *Associate Professor of Forensic Pathology*; B.S., University of Nebraska, 1941; M.D., University of Colorado, 1944.

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### *Fellows and Research Assistants*

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GUNNBJORG LINDSETH, *Fellow in Neuropathology*.

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RICHARD W. PROUTY, *Fellow in Forensic Pathology*.

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## Pediatrics

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- B.S., Yale University, 1943; M.D., Columbia University, 1947.
- JOSEPH M. CORDI, *Instructor*; A.B., Johns Hopkins University, 1931; M.S., 1933; M.D., 1936.
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- EDWARD G. FIELD, *Associate*, B.S., Hampden-Sydney College, 1942; M.D., Medical College of Virginia, 1945.
- JEROME FINEMAN, *Assistant Professor*; B.S., University of Maryland, 1930; M.D., 1933.
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- KURT GLASER, *Assistant Professor*; M.D., University of Lausanne, 1939; M.Sc. University of Illinois, 1948.
- SAMUEL S. GLICK, *Associate Professor*; A.B., Johns Hopkins University, 1920; M.D., University of Maryland, 1925.
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- G. BOWERS MANSDOFFER, *Associate*; B.S., Gettysburg College, 1925; M.D., University of Maryland, 1930.
- MARY E. MATTHEWS, *Assistant*; B.S., North Carolina State College, 1936; M.S., University of North Carolina, 1945; M.D., 1949.
- FRED R. McCRUMB, *Associate*; M.D., University of Maryland, 1948.
- ELEANOR L. McKNIGHT, *Assistant*; B.S., Madison College, 1937; M.S., Simmons College, 1947.
- ISRAEL P. MERANSKI, *Associate*; B.S., Trin-

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- NORMAN L. MILLER, *Assistant*; B.S., University of Maryland, 1951; M.D., 1953.
- ROBERT S. MOSSER, *Instructor*; B.S., University of Maryland, 1949; M.D., 1951.
- PAUL A. MULLAN, *Instructor*; B.S., Seton Hall University, 1952; M.D., University of Maryland, 1957.
- WILLIAM A. NIERMANN, *Assistant*; M.D., Medical College of Virginia, 1948.
- DORA PAPARA-NICHOLSON, *Assistant Professor*; M.D., National University of Athens, Greece, 1933.
- WILLIAM S. PARKER, *Assistant*; B.S., University of Chattanooga, 1947; M.D., University of Tennessee, 1951.
- MARVIN PLATT, *Instructor*; B.S., (Phar), University of Maryland, 1951; B.S., (A&S), 1954; M.D., 1956.
- CHARLES LEE RANDOL, *Instructor*; M.D., Johns Hopkins University, 1943.
- INGE RENNER, *Instructor*, M.B.B.S., University of Hong Kong, 1953.
- AMELIA REYES, *Instructor*; M.D., University of the Philippines, 1957.
- HILDEGARD ROTHMUND, *Instructor*; M.D., Heidelberg, 1945; Ph.D., Johns Hopkins University, 1955.
- LEONARD SCHERLIS, *Instructor*; A.B., Johns Hopkins University, 1942; M.D., 1945.
- SIDNEY SCHERLIS, *Assistant Professor*; B.A., University of Pennsylvania, 1934; M.D., University of Maryland, 1938.
- WILLIAM M. SEABOLD, *Assistant Professor*; B.S., University of Maryland, 1928; M.D., 1931.
- HENRY MURRAY SEIDEL, *Instructor*; A.B., Johns Hopkins University, 1943; M.D., 1946.
- FRED B. SMITH, *Associate Professor*; M.D., University of Maryland, 1920.
- MELCHIJAH SPRAGINS, *Associate*; A.B., Johns Hopkins University, 1941; M.D., 1944.
- ALVIN A. STAMBLER, *Assistant*; B.S., M.D., University of Maryland, 1952.
- STEPHEN TOMS, *Assistant*; B.A., Catholic University, 1949; M.D., St. Louis University, 1953.
- ARNOLD TRAMER, *Instructor*; B.S., University of Maryland, 1936; M.D., 1949.
- ARNOLD VANCE, *Instructor*; B.S., University of Maryland, 1950; M.D., 1953.
- STUART H. WALKER, *Instructor*; A.B., Middlebury College, 1942; M.D., New York University, 1945.
- GEORGE H. WALL, *Assistant*; B.S., University of Maryland, 1950; M.D., 1954.
- KARL H. WEAVER, *Instructor*; A.B., West Virginia University, 1950; M.D., University of Maryland, 1953.
- WILLIAM EARL WEEKS, *Assistant*; B.S., Wake Forest College, 1937; M.D., University of Maryland, 1940.
- GIBSON JACKSON WELLS, *Assistant Professor*; B.S., Johns Hopkins University, 1932; M.D., University of Maryland, 1936.
- ERIC L. WHITE, *Assistant in Pediatrics*; B.S., Howard University, 1949; M.D., 1953.
- J. CARLTON WICH, *Assistant*; B.S., University of Maryland, 1938; M.D., 1943.
- ROBERT E. YIM, *Instructor*; B.S., University of Nevada, 1950; M.D., University of Maryland, 1954.
- GINO L. F. ZARBIN, *Assistant*; M.D., Università degli Studi-Milano, 1948.

### *Consultants, Pediatric Central Evaluation Department*

- RUTH BAUMGARTNER, *Psychologist*.
- JOHN F. CARTER, *Speech Therapist*.
- SAMUEL FOX, M.D., *Ophthalmologist*.
- ELEANORE JANTZ, M.D., *Psychologist*.
- ELI LIPPMAN, M.D., *Orthopedist*.
- BARBARA MACDONALD, *Social Worker*.
- NORMAN L. MILLER, M.D., *Neurologist*.
- AMELIZ REYES, M.D., *Pediatrician*.
- PAUL RICHARDSON, M.D., *Physiatrist*.
- JOHN STRAHAN, M.D., *Dermatologist*.
- BERTRAM C. THORNE, *Audiologist*.

### *Research Fellows*

- CARLOS ABEL, M.D.
- MACY DARLING
- WILLIAM FISHBEIN, M.D.
- MICHAEL KILCHENSTEIN
- PAUL DE SCHEPPER, M.D.
- MORTON SCHMUKLER, M.D.
- PAUL TOCCI

### *Pediatric Fellows*

- JOHN CADDEN, M.D.
- OAKLEY SAUNDERS, M.D.

## Pharmacology

- JOHN CHRISTIAN KRANTZ, JR., *Professor of Pharmacology and Head of the Department*; B.S., University of Maryland, 1923; M.S., 1924; Ph.D., 1928.
- FREDERICK KELLER BELL, *Assistant*; A.B., Johns Hopkins University, 1916; Ph.D., 1920.
- RAYMOND MERRITT BURGISON, *Associate Professor*; B.S., Loyola College, 1945; M.S., University of Maryland, 1948; Ph.D., 1950.
- C. JELLEFF CARR, *Adjunct Professor*; B.S., University of Maryland, 1933; M.S., 1934; Ph.D., 1937.
- RUTH MUSSEY, *Assistant Professor*; B.A., Goucher College, 1917; M.S., University of Maryland, 1931.
- JOHN JOSEPH O'NEILL, *Associate Professor*; B.S., St. Francis College, 1942; M.S., University of Maryland, 1953; Ph.D., 1955.
- EDWARD BYRD TRUITT, JR., *Associate Professor*; B.S., Medical College of Virginia, 1943; Ph.D., University of Maryland, 1950.

## Fellows, Research Assistants and Associates

- JOHN A. BEECH, *Fellow*.
- MONIQUE C. BRAUDE, *Fellow*.
- HELMUT F. CASCORBI, M.D., *Research Associate*.
- GILBERT DURITZ, *Research Assistant*.
- ETHEL M. EBERSBERGER, *Research Assistant*.
- ILSE H. LIBAUER, *Research Assistant*.
- ALFRED S. LING, *Research Assistant*.
- GORDON G. LU, M.D., Ph.D., *Research Associate*.
- ANN M. MORGAN, *Research Assistant*.

## Physiology

- WILLIAM DEWEY BLAKE, *Professor of Physiology and Head of the Department*; A.B., Dartmouth College, 1940; M.D., Harvard Medical School, 1943.
- JEANNE QUINLIN BARRY, *Junior Instructor*; B.A., Cornell University, 1951.
- LEON BERNSTEIN, *Associate Professor*;

- B.Sc., University of London, 1939; Ph.D., 1957; M.R.C.S., 1949; L.R.C.P., 1949.
- SAMUEL LOUIS FOX, *Assistant Professor*; Ph.G., University of Maryland, 1934; B.S., 1936; M.D., 1938.
- ROBERT GALAMBOS, *Professor of Physiology*; A.B., Oberlin College, 1935; M.A., 1936; A.M., Harvard, 1938; Ph.D., 1941; M.D., University of Rochester, 1946.
- SHELDON E. GREISMAN, *Assistant Professor*; M.D., New York University, 1949.
- LEO M. KARPELES, *Assistant Professor*; B.S., University of North Carolina, 1941; M.D., University of Washington, 1955.
- JEROME K. MERLIS, *Associate Professor*; B.S., University of Louisville, 1933; M.D., 1937; M.S., 1938.
- DIETRICH CONRAD SMITH, *Professor of Physiology*; *Associate Dean*; B.A., University of Minnesota, 1923; M.A., 1924; Ph.D., Harvard University, 1928.

## Preventive Medicine and Rehabilitation

- GEORGE ENTWISLE, *Professor of Preventive Medicine and Rehabilitation, and Head of the Department*; B.S., University of Massachusetts, 1945; M.D., Boston University, 1948.
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- ROSS DAVIES, *Associate Professor of Preventive Medicine*; M.D., Dalhousie University, 1924; M.P.H., Johns Hopkins University, 1938.
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- HUNTINGTON WILLIAMS, *Professor of Hygiene and Public Health*; B.A., Harvard University, 1915; M.D., Johns Hopkins University, 1919; D.P.H., 1921.
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## Psychiatry

- EUGENE B. BRODY, *Professor of Psychiatry and Head of the Department*; Director, The Psychiatric Institute, A.B., M.A., University of Missouri, 1941; M.D., Harvard University, 1944.
- A. RUSSELL ANDERSON, *Associate Clinical Professor of Psychiatry*; B.A., University of Wisconsin, 1929; M.D., University of Chicago, 1933.
- HARRIETT ARONSON, *Research Assistant Professor of Psychology*; B.A., Douglass College, 1951; M.S., Purdue University, 1953; Ph.D., 1957.
- CHARLES BAGLEY, III, *Assistant Clinical Professor of Psychiatry*; B.S., Loyola College, 1944; M.D., University of Maryland, 1950.
- RAYMOND I. BAND, *Assistant Clinical Professor of Psychiatry*; A.B., George Washington University, 1945; M.D., 1948.
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- RUTH BLUMENFELD, *Research Instructor in Anthropology*; A.B., Brooklyn College, 1954.
- MYRON EICHLER, *Instructor in Psychiatry*; B.S., Tulane University, 1950; M.D., New York Medical College, 1954.
- L. WHITING FARINHOLT, JR., *Professor of Law in Psychiatry*; A.B., Johns Hopkins University, 1934; LL.B., University of Maryland, 1940; LL.M., Harvard Law School, 1947.
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- GERTRUDE M. GROSS, *Clinical Instructor in Psychiatry*; M.D., Basel University, 1935.
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- SONIA RAINES, *Instructor in Psychiatry*; M.D., University of Bologna, 1937.
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- JOHN R. REID, *Professor of Philosophy in Psychiatry*; Ph.D., University of California, 1936.
- JOSEPH J. REIDY, *Associate in Psychiatry*; M.D., Loyola University, Chicago, 1948.



- HARVEY A. ROBINSON, *Associate Professor of Medical Psychology*; A.B., Harvard University, 1938; A.M., 1940; Ed.D., 1948.
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- WINFIELD SCOTT, *Assistant Professor of Medical Psychology*; B.S., Penn State University, 1954; M.S., 1955; Ph.D., 1958.
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- JACOB J. STEIN, *Associate in Medical Psychology*; B.S., City College of New York, 1942; M.S., 1942; Ph.D., Cornell University, 1952.
- ADORACION L. TANEGA, *Instructor in Psychiatry*; M.D., University of the Philippines, 1955.
- ROBERT E. TRATTNER, *Clinical Instructor in Psychiatry*; D.D.S., Western Reserve University, 1945; A.B., 1947; M.D., University of Chicago, 1951.
- PHILIP C. VAIL, *Instructor in Medical Psychology*; B.A., Haverford College, 1951; P.A., Menninger Foundation School of Psychiatric Aides, 1952.
- MARIANO VIEGA, *Assistant Professor of Psychiatry*, B.S., Menendez Pelayo College, 1939; M.D., Barcelona University, 1944.
- EUGENE C. WATERMAN, *Clinical Instructor*; B.S., Southern Methodist University, 1949; M.D., Southwestern Medical School of University of Texas, 1953.
- ROGER S. WATERMAN, *Clinical Instructor in Psychiatry*; B.S., Bethany College, 1948; M.D., University of Maryland, 1948.
- WALTER WEINTRAUB, *Assistant Professor of Psychiatry*; B.A., New York University, 1948; M.D., University of Geneva, 1951.
- DONALD L. WESTON, *Assistant Professor of Medical Psychology*; A.B., University of Michigan, 1953; M.A., Boston University, 1954; Ph.D., 1958.
- GERALD A. WHITEMARSH, *Assistant in Medical Psychology*; B.A., Trinity College, 1953; M.A., 1955; Ph.D., University of Connecticut, 1961.
- OTTO A. WILL, *Associate Clinical Professor of Psychiatry*; A.B., Stanford University, 1933; M.D., 1940.
- IMOGENE YOUNG, *Associate Professor of Psychiatric Social Work*; B.A., Sophie Newcomb College, 1933; M.S.W., Tulane University, 1935.
- MARY AINSWORTH, *Consultant in Psychology*
- BERNICE BASS, *Assistant in Psychiatric Social Work*
- MURRAY BOWEN, *Consultant in Family Therapy*
- ROBERT BROWN, *Medical Psychologist*
- FLORENCE BURNETT, *Research Assistant in Public Health Nursing*
- WILLIAM H. CLARK, *Research Assistant*
- ROBERT L. DERBYSHIRE, *Fellow in Medical Sociology in Psychiatry*
- ELMAR EINBERG, *Research Associate*
- MARTHA ELLIS, *Psychiatric Social Worker*
- ANTONIO FRUMENTO, *Research Associate*
- MURRAY GLANZER, *Research Associate in Psychology*
- RUSSELL E. ILER, *Fellow in Psychiatry*
- NANCY H. MCGINNIS, *Research Assistant*
- SAMUEL NOVEY, *Consultant in Psychiatry*
- LYDIA O'NEILL, *Research Assistant*
- BETTY C. OVERALL, *Psychiatric Social Worker*
- CARL SCHLEIFER, *Fellow in Psychiatry*
- BOYLSTON D. SMITH, *Fellow in Psychiatry*
- EPP TAMMARU, *Research Assistant*
- THEODORE TRABUE, *Psychiatric Social Worker*
- ISADORE TUERK, *Consultant in Psychiatry*
- JOAN YOUNG, *Research Assistant*

## Radiology

- JOHN MURRAY DENNIS, *Professor of Radiology and Head of the Department*; B.S., University of Maryland, 1943; M.D., 1945.
- ROBERT H. ARMSTRONG, *Instructor*; M.D.,

- George Washington University, 1943.
- FERNANDO GERMANO BLOEDORN, *Professor of Radiology and Head, Division of Radiology*; M.D., University del Litoral, Rosario, Argentina, 1936.
- ROBERT PAGE BOUDREAU, *Associate Professor*; B.A., Princeton University, 1943; M.D., Syracuse University, 1946.
- CARLO ALLESANDRO CUCCIA, *Associate Professor*; M.D., University of Milano, Italy, 1948.
- EDWARD RUNKEL DANA, *Assistant Professor*; B.A., Wesleyan University, 1941; M.D., Johns Hopkins University, 1944.
- CHARLES N. DAVIDSON, *Professor of Clinical Radiology*; M.D., University of Virginia, 1938.
- JOHN DE CARLO, JR., *Assistant Professor*; A.B., Temple University, 1940; M.D., Jefferson Medical College, 1944.
- ROBERT J. DICKSON, *Assistant Professor*; B.A., Cambridge University, 1939; M.A., 1946; M.B., B.Ch., 1946; M.D., 1931.
- NATHAN BERNARD HYMAN, *Instructor*; M.D., University of Maryland, 1946.
- JAMES A. LYON, JR., *Assistant Professor*; A.A., Princeton University, 1944; M.D., Long Island College of Medicine, 1947.
- RAUL MERCADO, JR., *Instructor*; A.B., Polytechnic Institute of Puerto Rico, 1947; M.D., University of St. Louis, 1951.
- RAWDON B. RAMBO, *Instructor*; M.D., Hahnemann Medical College, 1932.
- JAMES EUGENE ROBINSON, *Assistant Professor of Radiology and Head, Section of Physics and Radiobiology*; B.S., Utah State Agricultural College, 1947; M.A., Washington University, 1949; Ph.D., 1955.
- WILLIAM N. THOMAS, *Instructor*; M.D., University of Virginia, 1942.
- WILLIAM H. WALLOP, *Instructor*; A.A., Princeton University, 1949; M.D., Columbia University, 1949.
- DONALD A. WOLFEL, *Assistant Professor*; B.S., University of Maryland, 1949; M.D., 1952.

## Surgery

- ROBERT WILLIAM BUXTON, *Professor of Surgery and Head of the Department*; A.B., Kansas University, 1931; M.D., 1936; M.S., University of Michigan, 1943.
- ROBERT CALVIN ABRAMS, *Instructor in Orthopedic Surgery*; A.B., Johns Hopkins University, 1935; M.D., 1939.
- THURSTON R. ADAMS, *Assistant Professor of Surgery*; M.D., University of Maryland, 1934.
- GEORGE CARL ALDERMAN, *Instructor in Otolaryngology*; B.S., Loyola College, 1948; M.D., University of Maryland, 1952.
- BRUCE W. ARMSTRONG, *Assistant Professor of Surgery*; B.A., Montana State University, 1941; M.D., Washington University, 1944.
- JAMES GIVENS ARNOLD, JR., *Professor of Neurological Surgery and Head, Division of Neurological Surgery*; B.A., University of North Carolina, 1925; M.D., Johns Hopkins University, 1929.
- SAFUH ATTAR, *Instructor in Thoracic Surgery*; B.A., Makassed College, 1943; M.D., American University, Beirut, Lebanon, 1947.
- ROBERT Z. BERRY, *Associate in Otolaryngology*; B.A., University of West Virginia, 1941; M.D., University of Maryland, 1943.
- HAROLD PAUL BIEHL, *Assistant in Surgery*; A.B., Western Maryland College, 1936; M.D., University of Maryland, 1940.
- EMIL BLAIR, *Instructor in Thoracic Surgery*; M.S., University of Colorado, 1958; M.D., Medical College of Georgia, 1946.
- CYRUS L. BLANCHARD, *Professor of Otolaryngology and Head, Division of Otolaryngology*; B.A., Clark University, 1943; M.D., George Washington University, 1946.
- HENRY FRANCIS BONGARDT, *Assistant Professor of Surgery*; B.S., Creighton University, 1919; M.D., 1919.

- HARRY CLAY BOWIE, *Assistant Professor of Surgery*; B.S., University of Maryland, 1932; M.D., 1936.
- OTTO CHARLES BRANTIGAN, *Professor of Surgery*; B.S., Northwestern University, 1931; M.D., 1934.
- HENRY ALISON BRIELE, *Associate in Postgraduate Surgery*; Ph.G., University of Maryland, 1931; M.D., 1939.
- HAROLD BUBERT BURNS, *Associate in Surgery*; B.S., University of Pittsburgh, 1938; M.D., University of Maryland, 1936.
- JOHN EDWARD CARROLL, JR., *Assistant in Orthopedic Surgery*; M.D., University of Maryland, 1952.
- JOHN W. CHAMBERS, *Instructor in Surgery*; A.B., Johns Hopkins University, 1939; M.D., 1943.
- RICHARD C. COBLENTZ, *Clinical Professor of Neurological Surgery*; A.B., Johns Hopkins University, 1914; M.D., 1918.
- WILFORD ANDERSON HALL COUNCILL, JR., *Instructor in Urology*; B.S., Davidson College, 1942; M.D., University of Virginia, 1947.
- E. EUGENE COVINGTON, *Associate in Oncology*; M.D., University of Maryland, 1927.
- R. ADAMS COWLEY, *Associate Professor of Thoracic Surgery and Head, Division of Thoracic Surgery*; M.D., University of Maryland, 1944.
- ROBERT M. N. CROSBY, *Associate in Neurological Surgery*; M.D., University of Maryland, 1943.
- RICHARD J. CROSS, *Associate in Otolaryngology*; B.S., Mt. St. Mary's College, 1943; M.D., University of Maryland, 1946.
- RAYMOND M. CUNNINGHAM, *Instructor in Surgery*; B.A., Loyola College, 1935; University of Maryland, 1939.
- MICHAEL L. DEVINCENTIS, *Instructor in Surgery*; B.S., Loyola College, 1937; M.D., University of Maryland, 1941.
- LIEBE SOKOL DIAMOND, *Instructor in Orthopedic Surgery*; A.B., Smith College, 1951; M.D., University of Pennsylvania, 1955.
- WILLIAM CHARLES DUNNIGAN, *Assistant in Surgery*; A.B., Loyola College, 1931; M.D., University of Maryland, 1935.
- FRANK PHILIP DWYER, JR., *Assistant in Otolaryngology*; M.D., University of Maryland, 1948.
- CHARLES REID EDWARDS, *Professor of Surgery*; M.D., University of Maryland, 1913.
- MONTE EDWARDS, *Clinical Professor of Surgery*; M.R.C.S. (England), L.R.C.P. (London), St. Thomas's Hospital Medical School, 1917.
- WILLIAM C. ESMOND, *Assistant Professor in Surgery*; B.S., University of Maryland, 1940; M.D., 1951.
- LEE KENDALL FARGO, *Associate in Urology*; M.D., Baltimore College of Physicians and Surgeons, 1915.
- WILLIAM HENRY FISHER, JR., *Associate in Postgraduate Surgery*; M.D., Duke University, 1940.
- C. THOMAS FLOTTE, *Assistant Professor of Surgery*; B.S., Franklin & Marshall College, 1943; M.D., Jefferson Medical College, 1946.
- EARL POTTER GALLEHER, *Instructor in Urology*; A.B., Princeton University, 1949; M.D., Johns Hopkins University, 1953.
- WILLIAM LYNNEWOOD GARLICK, *Associate Professor of Thoracic Surgery*; A.B., Emory University, 1933; M.D., George Washington University, 1937.
- JASON H. GASKEL, *Associate in Orthopedic Surgery*; A.B., Johns Hopkins University, 1930; M.D., University of Maryland, 1934.
- WILLIAM R. GERAGHTY, *Assistant in Surgery*; M.D., Baltimore Medical College, 1912.
- JAMES J. GERLACH, *Assistant in Otolaryngology*; A.B., Colorado College, 1943; M.D., University of Maryland, 1946.
- FRANCIS W. GILLIS, *Assistant Professor of Urology*; M.D., University of Maryland, 1927.
- ROBERT BRUCE GOLDSTEIN, *Instructor in Urology*; M.D., University of Maryland, 1954.
- LOUIS E. GOODMAN, *Instructor in Surgery*; A.B., Johns Hopkins University,



- 1934; M.D., University of Maryland, 1938.
- GEORGE GOVATOS, *Assistant Professor of Surgery*; A.B., Boston College, 1926; M.D., Johns Hopkins University, 1930.
- GEORGE HERBERT GREENSTEIN, *Assistant in Orthopedic Surgery*; A.B., Johns Hopkins University, 1941; M.D., University of Maryland, 1950.
- ISAAC GUTMAN, *Associate in Orthopedic Surgery*; B.S., University of Maryland, 1931; M.D., 1934.
- JOHN S. HAINES, *Assistant Professor of Urology*; A.B., Washington and Lee University, 1934; M.D., Johns Hopkins University, 1938.
- LEONARD GERARD HAMBERRY, *Assistant in Surgery*; A.B., Loyola College, 1940; M.D., University of Maryland, 1950.
- ROBERT FAIRBANK HEALY, *Instructor in Surgery*; B.S., University of Maryland, 1930; M.D., 1934.
- DONALD B. HEBB, *Assistant in Surgery*; M.D., Johns Hopkins University, 1938.
- RAYMOND F. HELFRICH, *Associate in Surgery*; A.B., Loyola College, 1927; M.D., University of Maryland, 1931.
- JOHN H. HIRSCHFELD, *Instructor in Otolaryngology*; M.D., University of Vienna, 1938.
- JOHN FRANCIS HOGAN, *Assistant Professor of Urology*; M.D., College of Physicians and Surgeons of Baltimore, 1911.
- JOHN FRANCIS HOGAN, JR., *Instructor in Urology*; M.D., University of Maryland, 1947.
- WILLIAM ADDISON HOLBROOK, *Assistant in Surgery*; B.S., University of Maryland, 1942; M.D., 1945.
- CYRUS F. HORINE, *Associate Professor of Surgery*; M.D., University of Maryland, 1919.
- HARRY CLAY HULL, *Professor of Clinical Surgery*; M.D., University of Maryland, 1932.
- HOLCOMBE H. HURT, JR., *Research Instructor in Thoracic Surgery*; B.S., Hampden-Sydney College, 1948; M.D., University of Virginia, 1952.
- BENJAMIN HERBERT ISAACS, *Assistant Professor of Otolaryngology*; A.B., Johns Hopkins University, 1932; M.D., University of Maryland, 1936.
- EVERETT D. JONES, *Assistant in Orthopedic Surgery*; B.A., Western Maryland College, 1938; M.D., University of Maryland, 1942.
- CLYDE F. KARNs, *Instructor in Surgery*; B.S., St. John's College, 1922; M.D., University of Maryland, 1927.
- FAYNE A. KAYSER, *Associate Professor of Otolaryngology*; B.S., University of West Virginia, 1925; M.D., University of Maryland, 1927.
- AUGUST KIEL, JR., *Instructor in Neurological Surgery*; M.D., University of Maryland, 1946.
- EDWARD ANDREW KITLOWSKI, *Clinical Professor of Plastic Surgery*; B.S., Bucknell University, 1917; M.D., Johns Hopkins University, 1921.
- HOWARD CALVIN KRAMER, *Instructor in Urology*; M.D., University of Maryland, 1951.
- FREDERICK T. KYPER, *Associate Professor of Otolaryngology*; M.D., University of Maryland 1923.
- JOHN DOUGLAS LeBOUVIER, *Instructor in Orthopedic Surgery*; B.S., London University, 1952; M.B., 1952.
- EUGENE JOSEPH LINBERG, *Assistant Professor of Thoracic Surgery*; A.B., Duke University, 1944; M.D., 1948.
- F. FORD LOKER, *Associate in Surgery*; B.S., University of Maryland, 1937; M.D., 1940.
- WILLIAM B. LONG, *Associate in Postgraduate Surgery*; B.S., Princeton University, 1940; M.D., Johns Hopkins University, 1943.
- WILLIAM DAWSON LYNN, *Instructor in Surgery*; B.A., University of Maryland, 1934; M.D., 1937.
- NICHOLAS MALLIS, *Instructor in Urology*; M.D., University of Maryland, 1948.
- ARLIE R. MANSBERGER, JR., *Assistant Professor of Surgery*; M.D., University of Maryland, 1947.
- ISADORE MASERITZ, *Assistant Professor of Orthopedic Surgery*; M.D., University of Maryland, 1924.
- HOWARD BROOKS MAYS, *Assistant Professor of Urology*; M.D., University of Maryland, 1935.
- HOWARD B. McELWAIN, *Assistant in Surgery*; M.D., University of Maryland, 1919.
- WILLIAM RAYMOND MCKENZIE, *Assistant*

- Professor of Otolaryngology; M.D., College of Physicians and Surgeons of Baltimore, 1915.
- KARL FREDERICK MECH, *Associate in Surgery*; B.S., University of Maryland, 1932; M.D., 1935.
- HERMAN J. MEISEL, *Instructor in Urology*; B.S., Columbia University 1929; M.D., 1932.
- THOMAS DICKSON MICHAEL, *Assistant in Otolaryngology*; M.D., Jefferson Medical College, 1949.
- MORITZ MICHAELIS, *Assistant Professor of Surgery*; Ph.D., University of Wurzburg, 1934.
- ELLIOT MICHELSON, *Instructor in Thoracic Surgery*; A.B., Johns Hopkins University, 1930; M.D., 1935.
- LYLE JORDON MILLAN, *Associate in Urology*; M.D., George Washington University, 1921.
- JOHN E. MILLER, *Instructor in Surgery*; B.A., Pennsylvania State University, 1938; M.D., Jefferson Medical College, 1942.
- JOSEPH M. MILLER, *Associate in Surgery*; A.B., Columbia University, 1931; M.D., University of Minnesota, 1939.
- KIRK MOORE, *Assistant in Surgery*; A.B., Princeton University, 1941; M.D., Johns Hopkins University, 1944.
- JOHN DUER MOORES, *Instructor in Surgery*; B.S., Johns Hopkins University, 1931; M.D., University of Maryland, 1932.
- WILLIAM H. MOSBERG, JR., *Associate in Neurological Surgery*; B.S., University of Maryland, 1942; M.D., 1944.
- JAMES WHARTON NELSON, *Professor of Clinical Surgery*; A.B., St. John's College, 1918; M.D., University of Maryland, 1925.
- HARUTADA NINOMIYA, *Assistant in Surgery*; M.D., University of Tokyo Medical College, 1945.
- THOMAS R. O'ROURKE, *Professor of Otolaryngology*; M.D., University of Maryland, 1921.
- FRANK JOSEPH OTENASEK, *Instructor in Neurological Surgery*; A.B., Loyola College, 1933; M.D., Johns Hopkins University, 1937.
- A. GIBSON PACKARD, *Assistant in Orthopedic Surgery*; B.A., Johns Hopkins University, 1950; M.D., University of Maryland, 1954.
- CLARENCE W. PEAKE, *Associate Professor of Surgery*; M.D., University of Maryland, 1927.
- DANIEL JAMES PESSAGNO, *Professor of Clinical Surgery*; B.A., Rock Hill College, 1916; M.D., University of Maryland, 1920.
- PATRICK CAREY PHELAN, JR., *Associate in Surgery*; B.A., Loyola College, 1935; M.D., University of Maryland, 1942.
- ROSS Z. PIERPONT, *Assistant in Surgery*; B.S., University of Maryland, 1939; M.D., 1940.
- HARRY PRIMROSE PORTER, *Assistant in Otolaryngology*; A.B., Johns Hopkins University, 1939; M.D., 1943.
- JAMES RICHARD POWDER, *Instructor in Urology*; B.A., Johns Hopkins University, 1949; M.D., University of Maryland, 1953.
- JOHN M. REHBERGER, *Assistant in Otolaryngology*; B.S., Loyola College, 1940; M.D., New York Medical College, 1947.
- CHARLES A. REIFSCHNEIDER, *Clinical Professor of Traumatic Surgery*; M.D., University of Maryland, 1916.
- HERBERT E. REIFSCHNEIDER, *Associate in Surgery*; A.B., Johns Hopkins University, 1922; M.D., University of Maryland, 1927.
- WILLIAM BENJAMIN REVER, JR., *Associate in Surgery*; M.D., University of Maryland, 1950.
- BEVERLY LEE REYNOLDS, *Instructor in Surgery*; A.B., Washington University, 1942; M.S., 1947; M.D., University of Virginia, 1952.
- BENJAMIN SUNDERLAND RICH, *Associate Professor of Otolaryngology*; B.A., Johns Hopkins University, 1923; M.D., University of Maryland, 1928.
- WILLIAM F. RIENHOFF, JR., *Assistant Professor of Surgery*; B.A., Cornell University, 1915; M.D., Johns Hopkins University, 1919.
- MARTIN ALBERT ROBBINS, *Associate in Urology*; A.B., Johns Hopkins University, 1939; M.D., University of Maryland, 1943.



- HARRY L. ROGERS, *Clinical Professor of Orthopedic Surgery*; M.D., University of Maryland, 1915.
- JOHN DAVID ROSIN, *Associate in Surgery*; B.S., Johns Hopkins University, 1938; M.D., University of Maryland, 1942; M.S., University of Minnesota, 1952.
- EMIL JOSEPH RYSANEK, *Instructor in Surgery*; A.B., Princeton University, 1949; M.D., Johns Hopkins University, 1953.
- C. PARKE SCARBOROUGH, *Assistant Professor of Plastic Surgery*; B.S., Pennsylvania State College, 1933; M.D., University of Maryland, 1937.
- JOHN F. SCHAEFER, *Instructor in Surgery*; Ph.G., University of Maryland, 1934; B.S., 1936, M.D., 1938.
- IRVING SCHERLIS, *Assistant in Urology*; A.B., Johns Hopkins University, 1940; M.D., University of Maryland, 1943.
- THEODORE ALLISON SCHWARTZ, *Assistant Professor of Otolaryngology*; Ph.G., University of Maryland, 1930; B.S., 1932; M.D., 1934.
- WILLIAM BOOTH SETTLE, *Associate in Surgery*; A.B., University of Pennsylvania, 1930; M.D., 1933.
- JOHN OLIVER SHARRETT, *Instructor in Neurological Surgery*; M.D., University of Maryland, 1952.
- ROBERT CLAY SHEPPARD, *Associate in Surgery*; B.S., University of Maryland, 1936; M.D., 1938.
- E. RODERICK SHIPLEY, *Associate in Surgery*; A.B., Johns Hopkins University, 1938; M.D., University of Maryland, 1942.
- ARTHUR GEORGE SIWINSKI, *Assistant Professor of Surgery*; A.B., Johns Hopkins University, 1927; M.D., University of Maryland, 1931.
- JOHN CRAIG STAUFFER, *Research Assistant Professor of Surgery*; A.B., Princeton University, 1949; M.D., University of Maryland, 1953.
- EDWIN HARVEY STEWART, JR., *Associate in Surgery*; M.D., University of Maryland, 1943.
- FREDERICK LOUIS STICHEL, JR., *Assistant in Otolaryngology*; B.S., University of Maryland, 1943; M.D., 1944.
- WILLIAM JOSEPH SUPIK, *Associate in Surgery*; B.S., University of Maryland, 1940; M.D., 1940.
- JOHN J. TANSEY, *Associate in Orthopedic Surgery*; A.B., Brown University, 1942; M.D., University of Maryland, 1945.
- RAYMOND K. THOMPSON, *Assistant Professor of Neurological Surgery*; B.S., University of Maryland, 1937; M.D., 1941.
- BERTRAM CLYDE THORNE, *Instructor in Otolaryngology*; B.A., Brooklyn College, 1952; M.A., Brooklyn College, 1954.
- MORRIS TISCHLER, *Research Associate in Surgery*; B.S., University of Maryland, 1950; M.H., 1952.
- T. JOSEPH TOUHEY, *Assistant in Surgery*; M.D., University of Maryland, 1923.
- I. RIDGEWAY TRIMBLE, *Professor of Clinical Surgery*; B.A., Princeton University, 1922; M.D., Johns Hopkins University, 1926.
- ALLEN FISKE VOSHELL, *Professor of Orthopedic Surgery and Head, Division of Orthopedic Surgery*; A.B., Johns Hopkins University, 1915, M.D., 1919.
- WILLIAM WALLACE WALKER, *Associate Professor of Surgery*; B.S., University of West Virginia, 1921; M.D., University of Maryland, 1923.
- ARTHUR THOMAS WARD, JR., *Associate in Otolaryngology*; A.B., Johns Hopkins University, 1933; M.D., 1939.
- ISRAEL HOWARD WEINER, *Instructor in Neurological Surgery*; B.A., Johns Hopkins University, 1949; M.D., University of Maryland, 1953.
- MILTON J. WILDER, *Assistant Professor of Orthopedic Surgery*; B.S., University of Maryland, 1933; M.D., 1939.
- DAVID REID WILL, *Instructor in Surgery*; M.D., University of Maryland, 1943.
- AUSTIN H. WOOD, *Assistant in Urology*; M.D., University of Maryland, 1914.
- JOHN M. WORKMAN, *Research Instructor in Thoracic Surgery*; B.A., Oxford University, England, 1944; B.M., B., Chem., University College Hospital, London, 1947.
- GEORGE HERSCHEL YEAGER, *Professor of Clinical Surgery*; B.S., University of West Virginia, 1927; M.D., University of Maryland, 1929.
- JOHN DAVID YOUNG, JR., *Professor of Urology and Head, Division of Urological Surgery*; B.A., Bridgewater College, 1938; M.D., University of Maryland, 1941.

*Fellows, Research Fellows, and  
Research Assistants*

JAMES T. ESTES, *Fellow in Surgery.*

WILFRED H. HOLDEFER, *Fellow in Surgery.*

NIT KONSUWAN, *Research Fellow in Thoracic Surgery.*

DONALD R. MCWILLIAMS, *Fellow in Surgery.*

PAULO P. MENDONCA, *Research Fellow in Urology.*

JUANITO C. ROA, *Research Fellow in Thoracic Surgery.*

ANDREW DE KOROSSY SZABO, *Research Assistant in Surgery.*

GEORGE BENNETT THOMPSON, *Research Assistant in Thoracic Surgery.*

# Organization of the Curriculum and Courses of Instruction

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## ► ANATOMY

**Professors:** FIGGE (HEAD OF DEPARTMENT), BRANTIGAN, NAUTA, KRAHL.

**Associate Professors:** KUYPERS, LEVEQUE, WALKER.

**Assistant Professors:** BOUDREAU, MECH, SAUNDERS, SETTLE.

**Research Assistant Professor:** RAMON-MOLINER.

**Instructors:** CARSKI, CRISPENS, LANGENFELDER, MARTIN.

**Associates:** BOWIE, PIERPONT, REIFSCHNEIDER.

*Anat. 101. Gross Anatomy. (272 hours)*

First year, first semester. This course gives the student an opportunity to develop a basic concept of the morphology of the human body. It is closely interwoven with the study of neuroanatomy, histology, and embryology, and some time is devoted to roentgen anatomy. The entire human body is dissected.

*Microanat. 101. Microanatomy. (178 hours)*

First year, first semester. This course presents an integrated study of the histology and embryology of the human body. An attempt is made to correlate this with gross anatomy as well as other subjects in the medical curriculum. Special emphasis is placed on the dynamic and functional aspects of the subject.

*Neuroanat. 101. Neuroanatomy. (116 hours)*

First year, first semester. The study of the detailed anatomy of the central nervous system is coordinated with structure and function of the entire nervous system. The dissection of the human brain and the examination of stained microscopic sections of various levels of the brain stem are required.

*Anat. 103. Clinical Anatomy. (96 hours)*

Second year, second semester. The course is designed to bridge the gap between basic anatomy and clinical or applied anatomy. The study of surface anatomy is correlated with physical diagnosis. Students have an opportunity to perform a detailed anatomical dissection with emphasis upon clinical application. Laboratory fee, non-medical students, \$20.00.

## FOR GRADUATES

The graduate degrees offered by the Department of Anatomy are the Master of Science and the Doctor of Philosophy.

*Anat. 201. General Anatomy of the Human Body. (8)*

Same course as Anat. 101, but on a more advanced level. It can be taken by graduate as well as postgraduate students. Laboratory fee, \$25.00.

*Anat. 203. Practical Anatomy. (4)*

Same course as Anat. 103, but on a more advanced level. Laboratory fee, \$20.00.

*Anat. 204. Fetal and Infant Anatomy. (2)*

Fifteen periods of three hours each, every Thursday from 2:00 to 5:00 p.m. during the second semester. This course is open to graduate students and post-graduates interested in Pediatrics.

*Anat. 205. Research in Anatomy.*

Maximum credits, 12 per semester. Research work may be taken in any one of the branches of Anatomy.

*Neuroanat. 201. Human Neuroanatomy. (4)*

Same course as Neuroanat. 101, but with additional work of a more advanced nature. Laboratory fee, \$10.00.



***Neuroanat. 202. Research in Neuroanatomy.***

Maximum credits, 12. Research work involving the central or peripheral nervous system.

***Microanat. 201. Mammalian Histology. (6)***

Same course as Microanat. 101, but with additional work of a more advanced nature. Laboratory fee, \$10.00.

***Microanat. 202. Normal and Atypical Growth.***

Lectures on Problems of Growth (2). Two hours per week, time to be arranged. Sixteen weeks, second semester.

***Microanat. 203. Research.***

Maximum credits, 12. Research work may be taken in any one of the branches which form the subject of Microanatomy (including cancer research).

At the beginning of the first year, all freshmen must possess a complete set of dissecting instruments similar to the one on display in the bookstore. In addition, they must provide themselves with microscopes equipped with a mechanical stage and a substage lamp. Microscopes must meet the standards described below.

A standard microscope made by Bausch & Lomb, Leitz, Zeiss, Reichert or American Optical Company fitted with the following attachments, meets the requirements.

16 mm., 10x, 0.25 N.A.—4.9 mm. working distance.

4 mm., 43x, 0.65 N.A.—0.6 mm. working distance.

1.8 mm., 97x, oil immersion, 1.25 N.A.—0.13 mm. working distance.

Oculars: 10x and 5x. Huygenian eyepieces.

Triple nose pieces with 16 mm., 4 mm., and 1.9 mm.

125 N.A. oil immersion lens.

Wide aperture stage with quick screw condenser and built on, but detachable, ungraduated mechanical stage. Substage condenser, variable focusing type 1.25 N.A. with iris diaphragm. A rack and pinion focusing device is preferred. Mirror: plane on one side, concave on the other. A carrying case is recommended.

Students are cautioned with respect to the purchase of used or odd-lot microscopes since some older instruments are in poor optical, or mechanical condition, and in addition to which some were equipped with a 4 mm. (high dry) objective whose N.A. is marked as 0.85. This objective has such a short working distance (0.3 mm.) that it is difficult or impossible to focus through thick cover glasses or the standard hemocytometer cover glass without breakage. All microscopes (new and used) are subject to inspection and approval by Dr. Theodore F. Leveque and Dr. Andrew G. Smith, Room 209, Bressler Building, 29 South Greene Street. Such approval must be obtained, at the latest, two days before school opens. This inspection is usually made during August.

## ► ANESTHESIOLOGY

Professor: HELRICHS.

Associate Professor: HACKETT AND STAFF.

During the first two years, the Department of Anesthesiology presents several lectures in the courses taught by the various pre-clinical departments. These lectures are intended to illustrate the application of the basic sciences to the clinical practice of anesthesiology. Emphasis is placed upon the physiologic and pharmacologic aspects of preanesthetic medication, choice of anesthesia and management of patients during surgery.



*Anes. 101. Introduction to Anesthesiology.*

Third year. The third year class is given a series of one hour lectures dealing with preoperative preparation and inhalation, local and spinal anesthesia. An effort is made to correlate the basic sciences with their clinical application.

*Anes. 102. Introduction to Anesthesiology.*

Fourth year. Each senior student spends two weeks in the operating rooms of the University Hospital or one of its affiliated hospitals administering anesthesia. Informal group meetings are held to emphasize factors affecting the anesthetic management of patients and to discuss pertinent anesthetic problems. The students also attend the regularly scheduled staff conferences in Anesthesiology.

## ► BIOLOGICAL CHEMISTRY

Professor: HERBST (ACTING HEAD OF DEPARTMENT).

Associate Professors: BESSMAN, EMERY, AND STAFF.

*Biochem. 101. Principles of Biochemistry. (240 hours)*

First year, second semester. Basic chemical and physical chemical aspects of biochemistry are presented both in lectures and in laboratory experiments. Intermediary metabolism, metabolic regulation and control, and the physiological secretions and excretions of mammalian cells are considered and the biochemical lesions in nutritional and metabolic diseases are characterized.

## FOR GRADUATES

Graduate degrees offered by the Department of Biological Chemistry are the Master of Science and Doctor of Philosophy.

*Biochem. 201. Principles of Biochemistry. (8)*

Same course as Biochem. 101 with additional assignments in biochemical literature. Laboratory fee, \$20.00.

*Biochem. 202. Special Topics in Biochemistry. (1, 1)*

Prerequisite, Biochem. 101 or 201. Reading assignments and written summaries of the classical research literature in biochemistry.

*Biochem. 204, 205. Seminar. (1, 1)*

First and second semesters. Reports on the current literature or on research in progress.

*Biochem. 206. Enzymes and Metabolism. (3)*

First semester. Three lectures per week on enzyme kinetics and intermediary metabolism. Prerequisite, Biochem. 201.

*Biochem. 207. Enzymes and Metabolism Laboratory. (3)*

First semester. Three three-hour laboratory periods per week on radioactive tracer methods, cell fractionation, enzyme preparation and assay procedures. To be taken concurrently with Biochem. 206.

*Biochem. 208. Biochemical Preparations. (1-4)*

Credit according to work assigned. The preparation of biochemicals by methods illustrating useful techniques for the isolation and purification of natural products.

*Biochem. 399. Research.*

Maximum credits, 12 hours per semester.

## ► MEDICINE

*Professors:* WOODWARD (HEAD OF DEPARTMENT), CAREY, KRAUSE, MERLIS, T. MORRISON, REVELL, ROBINSON, JR., SACKS, V. SMITH, VAN BUSKIRK.

*Associate Professors:* ANDERSCH, BERESTON, BUBERT, CONNOR, COTTER, EASTLAND, ELLIS, GUNDRY, HETHERINGTON, KARNS, LISANSKY, MARRIOTT, MC-CRUMB, S. MORRISON, PARKER, R.C.V. ROBINSON, L. SCHERLIS, W. SMITH, SPICER, SPURLING, STOREY, TIGERTT, WISWELL, WORKMAN.

*Assistant Professors:* ANDRES, BEACHAM, BORGES, CARROL, CHINARD, COHEN, EBELING, ENTWISLE, FELDMAN, FORT, FREEMAN, GREISMAN, JACOBSON, LEACH, LEGGE, LEGUM, LERNER, LEVY, G. MCLEAN, MERRILL, MORGAN, MULLER, REITER, S. SCHERLIS, SCHIER, SCHUBART, SERRA, SHAPIRO, SINGLETON, S. SMITH, SWISHER, TEITELBAUM, WISSEMAN, AND STAFF.

*Med. 102. Clinical Clerkship in Medicine.*

Third year. This course consists of a clinical clerkship on the medical wards of the University Hospital for a period of 9 weeks. Students are responsible, under supervision, for the history, physical examination, laboratory examinations and progress notes of assigned cases. They also attend ward rounds and conferences in general medicine with the Resident Staff, Attending Physicians, and Chief of Service. For an additional 3 weeks, students are assigned to the Baltimore City Hospitals for work in the General Medical Outpatient Department. They also serve as clinical clerks on the Chronic Disease Wards and attend ward rounds and teaching conferences in General Medicine, Tuberculosis, Neurology and Radiology.

*Med. 103. The Principles of Medicine. (47 hours)*

Third year. A series of lectures in General Medicine, Neurology, Clinical Medicine and Medical Jurisprudence are given to the entire junior class.

*Med. 104. Advanced Clinical Clerkship in Medicine.*

Fourth year. Clinical clerkship on the medical wards of University Hospital and Mercy Hospital, for 4 weeks. An additional 4 week period is spent in the Medical Outpatient Department where instruction is given in General Medicine and the medical specialties. During this tour the senior students make home visits on selected patients, participate in the workup of chronically ill patients at the Montebello Chronic Disease Hospital and attend consultative rounds in cardiology, infectious diseases, gastroenterology, arthritis, radio-isotopes, neurology, hematology, endocrinology and pulmonary diseases on the wards of the University Hospital.

Selected students who have completed the junior year may take Medicine 104 during the summer months. Application should be made to the Department Head prior to March 1 of the current year. Those students completing the course successfully will be assigned elective time during the academic year. This program is designed to foster research for promising students and to provide for more intensive training in the fundamentals of clinical medicine.

## SUMMER FELLOWSHIPS

Students who have completed their junior year are encouraged to seek additional training during the summer months preceding their senior studies. This training may be obtained in one of several ways. A limited number of students are appointed to Clinical Clerkships on the Medical Wards of the University Hospital. In these positions, they are responsible, under supervision, for the history, physical examination, laboratory studies and progress notes of assigned cases.

In addition, certain of the medical subspecialty divisions provide specialized training for students as Summer Fellows during the summer months. The applicant is encouraged to apply directly to the Division Head. These fellowships enable the student to become acquainted with the various specialized diagnostic and research techniques, the clinical problems and therapeutic regimens peculiar to each of the medical subspecialties. Summer Fellowships are available in the following Divisions: Cardiology, Clinical Pathology (2 appointments), Dermatology (2 appointments), Endocrinology (2 appointments), Gastroenterology, Renal-Hypertension (2 appointments), Infectious Diseases (2 appointments), Legal Medicine, Arthritis, Neurology and Radioisotopes (1 appointment), Pulmonary Diseases and Clinical Physiology (2 appointments). Interested applicants should contact the respective Division Head prior to January 1 of the year in which the fellowship is desired. In many instances a fellowship award is made providing remuneration for two or three of the summer months.

#### POSTGRADUATE FELLOWSHIPS

These are available in the various specialties of Medicine. For details see specific division.

The Department of Medicine, for administrative purposes, is divided into eleven Divisions. Each of these Divisions participates in the major courses taught by the Department. In addition, a number of specialized courses and postgraduate fellowships are offered by the Divisions.

#### *Division of Arthritis*

**Doctors:** SCHUBART (HEAD OF DIVISION), MARRIOTT, KOCHMAN, SCHRODER, AND STAFF.

##### *Med. 105. Division Rounds.*

Third year. Elective.

##### *Med. 105a. Outpatient Clinic.*

Fourth year. Elective. Weekly arthritis outpatient clinics and attendance at weekly arthritis seminar and rounds.

#### *Division of Cardiology*

**Doctors:** L. SCHERLIS (HEAD OF DIVISION), LOVE, JR., LEACH, S. SCHERLIS, SINGLETON, GONZALES, TOWNSHEND, VAN LILL, III, AND STAFF.

##### *Physiol. 101. Principles of Physiology.*

First year. Lectures and demonstrations in the Electrical Activity of the Heart in collaboration with the Department of Physiology.

##### *ID. 3. Physical Diagnosis.*

Second year, second semester. The Division of Cardiology participates in presenting this course.

##### *Med. 106. Electrocardiology. (16 hours)*

Third and four years. Electives. This is an introductory course consisting of illustrated group lectures and exercises.

##### *Med. 106a. Outpatient Clinic and Divisions Rounds.*

Fourth year. Elective weekly clinic and attendance at rounds.



**FELLOWSHIPS**

These are available to selected postgraduate applicants. The Fellow participates in the activities of the Division, including cardiac catheterization, by dilution and other physiologic studies. The fellowship begins July 1st of each year. A financial stipend is provided. Application is made through the Head of the Division and must be completed by October of the preceding year.

*Division of Clinical Pathology*

**Doctors:** SACKS (HEAD OF DIVISION), ANDERSCH, SPURLING, JIJL, DE HOFF, S. MILLER, FUNK, AND STAFF.

*Med. 101. Clinical Pathology. (128 hours)*

Second year. The course is designed to train the student in the performance and interpretation of the fundamental laboratory procedures used in clinical diagnosis. During the first semester the basic techniques of hematology as well as clinical aspects of blood diseases are taught. Blood group immunology in relation to transfusion is also covered. In the second semester the performance and interpretation of tests used in the diagnosis of renal, hepatic, gastric, pancreatic and metabolic diseases are considered. A review, with clinical applications, of acid-base balance and electrolyte disturbances is included. Methods of examination of cerebrospinal fluid, transudates and exudates are taught. Elements of clinical parasitology complete the work in this semester.

Each student provides his own microscope and blood counting equipment. A completely equipped locker is provided for each student.

*Med. 102a. Advanced Clinical Pathology. (8 hours)*

Third year. Seminar discussions of diagnostic laboratory procedures in selected diseases are given during the Medicine quarter. Each student is assigned a completely equipped locker adjacent to the wards for use during the clinical clerkships. Microscope and blood counting equipment must be provided by the student.

**POSTGRADUATE FELLOWSHIPS**

Two full-time clinical and research fellowships in hematology are available to applicants who have had a minimum of one year internship. A financial stipend is provided. Application should be made to the Head of the Division.

*Division of Dermatology*

**Doctors:** H. M. ROBINSON, JR., (HEAD OF DIVISION), R. C. V. ROBINSON, ELLIS, BERESTON, SHAPIRO, BUNDICK, M. COHEN, HOLLANDER, RASKIN, BACHARACH, STRAHAN, AND STAFF.

*Med. 107. Introduction to Dermatology.*

Third year. Students are given assigned reading on the more common skin eruptions. Nine two hour clinical sessions are held for each quarter of the junior class. Individual instruction is given by one of the senior staff members emphasizing the pertinent aspects of differential diagnosis.

*Med. 108. Practical Exercises in Dermatology.*

Fourth year. Groups of twelve students spend twenty hours in the outpatient department where they are given individual instruction in the diagnosis and treatment of cutaneous lesions. Emphasis is laid on the relationship of various eruptions to systemic conditions. Instruction is given in mycologic technique.

*Med. 108a.*

Students who take dermatology for the senior elective receive special training in clinical dermatology and the basic sciences as applied to dermatology.

## GRADUATE TRAINING

The Division of Dermatology is approved by the American Board of Dermatology for a three year period of training which is required by the Board. This consists of instruction in the basic sciences (mycology, bacteriology, histopathology, chemistry, and physiology), and instruction in clinical dermatology. Emphasis is placed on the relationship of cutaneous lesions to systemic diseases. Residents and Fellows spend a part of the training period at the Rosewood School for Retarded Children, the Baltimore City Hospitals, and in the private offices of the members of the staff. Temporary membership in the dermatologic societies is provided under the sponsorship of the Division Head.

*Division of Endocrinology and Metabolism*

Doctors: CONNOR (HEAD OF DIVISION), WISWELL, WORKMAN, AND STAFF.

*Endocrine Clinic—Conference and Rounds.*

Fourth year. Elective. Patients with a variety of Endocrine-Metabolic Diseases are seen in the Out-Patient Department every Monday afternoon from 1-1:30 p.m. This is followed by a Conference in which clinical case material is presented for discussion with staff members and students actively participating. Every Friday afternoon weekly wards rounds are held.

## RADIOACTIVE ISOTOPE LABORATORY

(DR. WORKMAN, HEAD)

*Physiol. 101. Principles of Physiology.*

First year. In cooperation with the Department of Physiology, two orientation lectures and 8 laboratory sessions of 4 hours each are devoted to the discussion and demonstration of radioisotope techniques useful in medicine.

*Pharmacology 201.*

Second year. In cooperation with the Department of Pharmacology, a portion of one laboratory session is utilized to demonstrate the accuracy of a radioisotope method of estimating thyroid function.

## POSTGRADUATE FELLOWSHIPS

Post-graduate Fellowships are available to applicants who have completed internship and at least one year of residency training. Opportunities for active participation in clinical and research activities are available. Independent research investigations are encouraged. A financial stipend is provided. Three full-time fellowship positions are available.

*Division of Gastroenterology*

Doctors: EBELING (HEAD OF DIVISION), S. MORRISON, V. SMITH, SCHOCHAT, AND STAFF.

*ID. 2. Introduction to Clinical Medicine.*

Second year. The Division of Gastroenterology participates in the presentation of this course.



### *Division of Hypertension and Renal Disease*

Doctors: REVELL, JR. (HEAD OF DIVISION), BORGES, ENTWISLE, YOUNG, AND STAFF.

*Med. 110. Conferences on Hypertension.*

Fourth year. Elective. Conferences on pathologic-physiology of hypertensive and renal disorders, sites of action of antihypertensive drugs, methods for screening patients with hypertension and therapeutic methods in various disease processes.

*Med. 111. Outpatient Clinic and Division Rounds.*

Fourth year. Elective. Weekly clinics and attendance at rounds.

#### POSTGRADUATE FELLOWSHIPS

The Division sponsors two Fellows who receive training in pathologic-physiology of hypertensive states, techniques of screening patients and management of hypertensive renal problems. In addition, he participates actively in investigative problems. A financial stipend is provided.

### *Division of Infectious Diseases*

Doctors: MC CRUMB, (HEAD OF DIVISION), M. J. SNYDER, HORNICK, SCHLUEDERBERG, AND STAFF.

#### POSTGRADUATE FELLOWSHIPS

The Division sponsors two Fellows who receive instruction in laboratory techniques and clinical investigation. Fellows participate in all functions of the Division, including collaboration in investigative problems. A financial stipend is provided. Application is made through the Head of the Division.

### *Division of Neurology*

Doctors: VAN BUSKIRK (HEAD OF DIVISION), MERLIS, LERNER, MERRILL, TEITELBAUM, COTTER, HULFISH, AND STAFF.

*Med. 112. Introduction to Clinical Neurology. (15 hours)*

Second year. Lectures in neurologic diagnosis are presented, stressing correlation of anatomy and physiology of the nervous system with clinical neurology.

*ID. 3. Physical Diagnosis.*

Second year, second semester. The Division participates in presenting this course.

#### POSTGRADUATE FELLOWSHIPS

The Division sponsors fellowships in Clinical Neurology including training in related basic sciences such as neurophysiology, neuroanatomy, neuropathology and neuroradiology. A financial stipend is provided.

### *Division of Physical Diagnosis*

Doctor: MARRIOTT (HEAD OF DIVISION) AND STAFF.

*ID. 2. Introduction to Clinical Medicine.*

Second year. The Division participates in presenting this course.

*ID. 3. Physical Diagnosis. (32 hours)*

Second year, second semester. This course implements ID. 2 and provides the student with bedside instruction in physical diagnosis. Small tutorial groups



*A common meeting place for students is the new Baltimore Union Building at 621 West Lombard Street. The new six story building, dedicated April 21, 1961, cost \$1.5 million. Future plans call for doubling its size.*



*The modern four story building of the Health Sciences Library, erected in 1960, for the School of Medicine, Nursing, Dentistry, and Law.*



are formed each under the direction of an instructor. In the first five weeks, experience in physical examination of normal individuals is given one afternoon weekly. During the subsequent twelve weeks, students become acquainted with abnormal signs through examination of hospitalized patients. For the first five of these twelve weeks, the Division of Cardiology gives instruction in the physical examination of the heart. Thereafter, sections are assigned in rotation to the Division of Neurology and the Department of Pediatrics for instruction in these specialties.

### *Division of Pulmonary Diseases*

Doctors: SPICER (HEAD OF DIVISION), STOREY, MORGAN, RENZETTI, DUVALL, AND STAFF.

#### *Med. 113. Clinical Clerkship in Pulmonary Diseases.*

Third year. This 3 week period of training is given on the chest ward service and in the chest clinic. Students are assigned hospital patients whom they work up, follow, and present at rounds and at conference. Clinic and bedside teaching emphasizes development of the technique of the medical examination which is correlated with x-ray study. The seminars and conferences emphasize an understanding of the basic processes involved in respiratory health and disease.

Fourth year. Elective. The chest clinic provides an opportunity for clinical and physiologic study of patients with chronic bronchopulmonary disease, especially chronic bronchitis and emphysema. Emphasis during this elective period is placed on development of understanding of principles and techniques of testing of cardio-pulmonary function testing.

### SUMMER FELLOWSHIP

The service offers two such full-time positions for three summer months to men who have completed the junior year. These fellowships will provide special experience in clinical chest disease and pulmonary physiology.

## ► MICROBIOLOGY

Professor: WISEMAN (HEAD OF DEPARTMENT).

Associate Professor: SMITH.

Assistant Professors: LEVIN, EYLAR, ROSENZWEIG, SNYDER, AND STAFF.

#### *Microbiol. 101. Medical Microbiology and Immunology. (180 hours)*

Second year, first semester. This course is intended to introduce the student to basic concepts of microbial agents and immunologic mechanisms necessary to understand infectious diseases, public health and diseases of immunologic origin.

Properties of microorganisms are considered in relation to pathogenesis of infections, mechanisms of tissue damage and host defense mechanisms. Bacterial, fungal, viral and rickettsial agents are studied in both lecture and laboratory.

### FOR GRADUATES

The Department of Microbiology offers the degree of Doctor of Philosophy and encourages especially those who wish to enroll in the combined M.D.-Ph.D. program. While the degree of Master of Science may be offered in special instances, priority for research facilities will be given aspirants to the Ph.D. degree. These courses are available only by prior arrangement with the Staff.

#### *Microbiol. 201. Medical Microbiology and Immunology. (8)*

First semester. Four lecture hours and eight hours in laboratory and group conferences per week. Laboratory fee, \$10.00. This course, intended for the serious

advanced student of medical microbiology, is built upon the framework of Microbiol. 101 supplemented with advanced readings and laboratory work.

*Microbiol. 203. Microbial Physiology. (3)*

Second semester, alternate years. Three lectures per week supplemented with demonstrations. By consent of instructor.

*Microbiol. 205. Cytology and Genetics of Microorganisms. (2)*

Second semester, alternate years. One lecture and one laboratory per week. Laboratory fee, \$10.00. Registration by consent of instructor.

*Microbiol. 206, 207. Seminar. (1, 1)*

First and second semesters. One session per week. Graduate students, staff and guests participate in comprehensive and critical reviews of subjects of special interest or pertinent to graduate training program.

*Microbiol. 208. Medical Mycology. (2)*

Second semester, alternate years. One lecture and one laboratory per week. Laboratory fee, \$10.00. Registration by consent of instructor.

*Microbiol. 209. Special Topics.*

(Permission and credit arranged individually.) This course provides the opportunity for the graduate student to pursue under supervision subjects of special interest not offered in other formal courses.

*Microbiology 210. Advanced Virology and Rickettsiology Lecture (3 hrs.)*

This course considers the general properties of viruses and rickettsiae, methods for studying them and finally concentrates on agents of medical importance. Special emphasis is placed on the host-parasite relationship, characterization of the various viral and rickettsial agents and on biological and ecological factors. Registration is by permission of instructor only. The course will be given on the average on alternate years in the Spring semester. There are two weekly sessions of 90 minutes each. Pre-requisite: Microbiology 201 or equivalent.

*Microbiology 211. Virology and Rickettsiology Laboratory (1 hr.)*

This course is the laboratory counterpart of Microbiology 210. It is designed to familiarize the student with the major techniques for the study of virus and rickettsial agents, and to give him first hand experience with a variety of the more common agents. Registration is by permission of instructor only. Because of the limited facilities and the nature of the work, it may be necessary to restrict registration in this course according to the following priority: students majoring in medical microbiology, then students minoring in microbiology and, finally, others. The laboratory consists of one formal session per week; however, the nature of the work frequently requires additional participation throughout the week.

*Microbiol. 399. Research (for thesis problem).*

Maximum credits, 12 hours per semester.

## ► OBSTETRICS & GYNECOLOGY

*Professors:* HASKINS (HEAD OF DEPARTMENT), KALTREIDER.

*Clinical Professors:* REESE, SIEGEL.

*Associate Clinical Professors:* CORNBROOKS, MC NALLY.

*Assistant Professor:* MIDDLETON.

*Assistant Clinical Professors:* BRADY, DIEHL, DIGGS, DIXON, DAVIS, MORRIS, MORRISON, SEEGAR, AND STAFF.



**Ob-Gyn. 101. Clinical Clerkship in Obstetrics and Gynecology.**

Third year. Students are assigned to Obstetrics and Gynecology for a period of six weeks. As clinical clerks, they participate in the original diagnostic studies, pelvic surgical procedures and postoperative care of hospitalized patients.

Daily rounds, seminars and departmental conferences with the attending staff and house officers aid the student in the interpretation and correlation with his observations, diagnoses and the several therapeutic regimens.

Specific instruction is provided in pathology, basic science and endocrinology as related to obstetrics and gynecology. Obstetrical manikin exercises, prenatal examination, and gynecologic outpatient care are accomplished in the Outpatient Department.

**Ob-Gyn. 102. Advanced Clinical Clerkship in Obstetrics and Gynecology.**

Fourth year. Students are assigned to Obstetrics and Gynecology for a period of four weeks. The student rotates through the accident room, delivery floor and maternity division. He participates in daily rounds, deliveries, postpartum care, and seminars. Specific instruction in cancer, obstetrical complications, and pelvimetry is provided.

► **OPHTHALMOLOGY**

*Professor and Head:* RICHARDS.

*Assistant Professors:* FOX, KREMEN, AND STAFF.

**Ophthal. 101. Introduction to Ophthalmology.**

Third Year. A lecture course for the entire class covers the fundamentals of ophthalmology. Weekly section work, with emphasis on the use of the ophthalmoscope, includes discussion periods, demonstrations and clinics.

**Ophthal. 102.**

Fourth Year. Ward rounds, demonstrations, discussion periods, and clinics in diseases of the eye.

► **PATHOLOGY**

*Doctors:* FIRMINGER (HEAD OF DEPARTMENT), FISHER, WAGNER.

*Associate Professors:* FREIMUTH, LINDENBERG, LOVITT, JR., MERKEL, REIMANN, SCHULTZ, WARNER, WEINBERG, WRIGHT.

*Assistant Professors:* ANTONIUS, BURKHART, GUERIN, KIEFER, KING, NAIB, PETTY, WOOD, AND STAFF.

**Path. 101. General, Systemic and Experimental Pathology. (364 hours)**

Second year. This course starts with the study of the basic principles of pathology and progresses with the study of diseases of the various organ systems. Teaching is chiefly by the case method using fresh and fixed autopsy cases but also utilizes gross museum specimens and a set of prepared selected histological slides. Students assist in the performance of autopsies in small groups, prepare final protocols and present the findings and interpretation of the cases to others in the class.

Included in this course are a series of experiments to illustrate the dynamics of disease processes culminating in an original experiment or literary research project with a final written report.

**Path. 102. Correlative Medical Pathology. (9 hours)**

Third year. This course is given in collaboration with the Department of Medicine and consists of a series of conferences with small groups of students, an internist and a pathologist. An illustrative clinical case is used as the base for discussion

of a few selected diseases with particular emphasis on correlating the anatomical and functional changes with the clinical disease.

***Path. 103. Surgical Pathology. (24 hours)***

Fourth year. This course consists of a series of rather informal lectures, and discussions of the pathology of various surgical conditions with small groups of students using colored lantern slides, gross museum specimens, a set of prepared microscopic slides and current gross surgical specimens.

***Path. 104. Clinical Pathological Conferences. (36 hours)***

Third and fourth years. These exercises are held in collaboration with various clinical departments. Histories from highly selected cases are circulated prior to the conference. Diagnoses are submitted and the differential diagnoses are discussed. The pathological findings are then presented and correlated with the clinical disease.

***Path. 105. Elective Pathology. (115 hours)***

Fourth year. Students may spend a month continuously in pathology as an assistant to a resident participating in autopsies, examination of surgical specimens and contributing to discussions in the various conferences of the Department.

**FELLOWSHIPS (AFTER SOPHOMORE YEAR)**

Students may be selected for summer fellowships in pathology or in certain instances drop out of the regular curriculum for a year and devote their entire time to pathology. Their activities are either of two types, one consists of serving as externs in pathology, the other is directed more toward research with students participating in research projects under the supervision of a Staff member.

***Division of Neuropathology***

**Doctors:** WAGNER (HEAD OF DIVISION), BAER, MOULTON, AND STAFF.

A series of lectures, demonstrations and case studies relating to the problems of neurologic disease is offered as a unit of the second year course in pathology. Additional courses offered include:

***Path. 106. Correlative Neuropathology. (4 hours)***

Third year. This course is given in collaboration with the Division of Neurology. Presentation of the history of an illustrative case is done by the student. This is followed by group discussion and by the presentation of neurologic and pathologic findings by the faculty.

***Path. 107. Advanced Neuropathology.***

Elective course open to third and fourth year students and Doctors of Medicine. One hour per week, second semester. Includes review of practical anatomy, discussion of pathologic principles as applied to the central nervous system, staining techniques and a thorough study of a selected group of illustrative cases with emphasis on clinical correlation and microscopic appearance. Seminar discussions and papers presented by students are included. Offered annually for ten acceptable students.

## Division of Forensic Pathology

Doctors: FISHER (HEAD OF DIVISION), FREIMUTH, GUERIN, KING, LOVITT, JR., PETTY, LINDENBERG, AND STAFF.

### FOR GRADUATES

In addition to teaching basic forensic pathology in the second year course this division offers a number of other courses including a graduate program in toxicology leading to the degrees of Master of Science and Doctor of Philosophy in Toxicology.

*Leg. Med. 201 Legal Medicine. (1)*

Third year or graduate students. This course consists of one hour of lecture for each of 12 weeks and 4 hours of assigned reading.

*Leg. Med. 202. Toxicology. (10)*

Two hours lecture, 8 laboratory hours per week for one year.

*Leg. Med. 203. Gross Pathologic Anatomy as Related to Toxicology. (2)*

Two hours per week for one year.

*Leg. Med. 204. Research in Toxicology Leading to Preparation of a Thesis for the M.S. (6)*

Minimum credits, six.

*Leg. Med. 205. Research in Toxicology Leading to Preparation of a Thesis for the Ph.D. (30)*

### FELLOWSHIPS

A limited number of physicians or students with a minimum of one year training in Pathologic Anatomy are appointed as Research Fellows for training and research in medicolegal pathology.

## ► PEDIATRICS

Professors: BRADLEY (HEAD OF DEPARTMENT), BESSMAN, FINKELSTEIN, HEPNER.

Associate Professors: GLICK, F. B. SMITH.

Assistant Professors: BALDWIN, CLEMMENS, COFFIN, FINEMAN, GLASER, GOOD, GORTEN, S. SCHERLIS, SEABOLD, JANTZ, WALKER, WELLS.

Associates: HOWELL, MANSDORFER, MC CRUMB, SPRAGINS, AND STAFF.

*Ped. 101. Inpatient Clerkship.*

Third year. Students are assigned as clinical clerks for a period of six weeks to the pediatric wards of the University and Mercy Hospitals. They are responsible for patient care and work with house staff and instructors in planning the workup and treatment of assigned patients. Ward rounds are attended three times weekly. The students are assigned tutors who meet with their students three times weekly.

Daily conferences are held covering x-ray diagnosis, cardiology, journal review, chart conferences, neo-natal mortality, case discussions and metabolic diseases. Discussions cover concepts of the premature and neonate, therapeutic management of pediatric patients, nutritional aspects and disturbances of the genitourinary tract.

*Ped. 102. Outpatient Department Clerkship.*

Fourth year. Students assigned to pediatrics as clinical clerks for a period of four weeks work in the Pediatric Outpatient Department of the University Hospital.

All patients seen by the student are reviewed by an instructor of the pediatric staff. Daily conferences covering a wide range of pertinent pediatric topics are held from 9:30 to 10:30 a.m. Students are assigned to the Development, Seizure, Pediatric Hematology, Cardiology and Child Guidance Clinics. Senior students are responsible for physical examinations of all neonates. Field trips to various community agencies are offered to selected students. Ward rounds for senior students are held twice weekly in the University Hospital. Senior students attend the departmental noon conferences.

*Ped. 103. Laboratory Research Problems in Pediatrics.*

Second year. Elective. (Two students per year). Students will be required to set up simple laboratory procedures to be used by them in the study of a clinical problem. Problems will be selected of such limited scope that a fairly complete project can be done by two students cooperating in their elective time over a period of one year. Emphasis will be made on the accuracy and reliability of standard techniques, as applied to the detailed analysis of a clinical problem. Interested students should apply to Dr. Bessman.

## ► PHARMACOLOGY

*Professor:* KRANTZ (HEAD OF DEPARTMENT).

*Associate Professors:* TRUITT, BURGISON AND O'NEILL, AND STAFF.

*Pharmacol. 101. General Pharmacology. (216 hours)*

Second year. This course is designed to include those phases of pharmacology necessary for an intelligent use of drugs in the treatment of disease. The didactic instruction includes materia medica, pharmacy, prescription writing, toxicology, dosology, pharmacodynamics and experimental therapeutics. The laboratory exercises parallel the course of lectures.

In addition, optional conference periods and lectures are available for students desiring further instruction or advice.

### FOR GRADUATES

All students majoring in the Department of Pharmacology with a view to obtaining the degree of Master of Science or Doctor of Philosophy should secure special training in anatomy, mammalian physiology, organic chemistry and physical chemistry.

*Pharmacol. 201, f.s. General Pharmacology. (8)*

Same as 101, for students majoring in pharmacology. Additional instruction and collateral reading are required. Laboratory fee, \$20.00.

*Pharmacol. 205. Research.*

Maximum credits, 12. Credit in accordance with the amount of work accomplished.

*Pharmacol. 206. Pharmacologic Methods.*

Maximum credits, 4. Credit in accordance with the work accomplished.

*Pharmacol. 207, 208. Chemical Aspects of Pharmacodynamics. (2-2)*



## ► PHYSIOLOGY

*Professors:* BLAKE (HEAD OF DEPARTMENT), GALAMBOS, D. C. SMITH.

*Associate Professors:* BERNSTEIN, MERLIS.

*Assistant Professors:* FOX, GREISMAN, KARPELES.

### *Physiol. 101. Principles of Physiology. (225 hours)*

First year, second semester. The lectures cover the major fields of physiology, including the following areas: central and peripheral nervous systems, neuro-muscular apparatus, heart and circulation, respiration, kidney and body fluids, gastrointestinal tract, endocrines and reproduction. The laboratory includes experiments with frog and turtle heart and nerve-muscle preparations, mammalian operative work and observations on the human subject.

### FOR GRADUATES

The graduate program in physiology is designed primarily for students oriented toward an academic career in the field of mammalian physiology, basic or applied. Some background in mathematics, physics and/or physical chemistry is considered essential and ordinarily only those wishing to complete the requirements for the Ph.D. degree will be considered. Before admission to candidacy for the Doctor of Philosophy degree the Department gives a qualifying examination, both oral and written, which must be satisfactorily passed.

A student majoring in Philosophy will ordinarily be expected to take *Physiol. 201* (or its equivalent) before, or concurrently with, courses 202 to 208 below. Such a student will extend his major program by taking courses in other departments of this University.

### *Physiol. 201. Principles of Physiology.*

Same as *Physiol. 101*, for graduate students taking physiology. Additional reading will be required. Laboratory fee, \$15.00. (Staff.)

### *Physiol. 202. Cardio-vascular Physiology. (2)*

Two hours a week for 15 weeks. Reading assignments, seminars, conferences on current research in the cardio-vascular field. (Karpeles.)

### *Physiol. 203. Pulmonary Physiology. (2)*

Two hours a week for 15 weeks. Reading assignments, lectures, seminars on current research in pulmonary physiology. (Bernstein.)

### *Physiol. 204. Physiological Techniques.*

Time and credit by arrangement. The various technical procedures currently operating in the Department will be demonstrated and opportunity will be given for acquiring experience with them. (Staff.)

### *Physiol. 205. Physiology of Kidney and Body Fluids. (2)*

Two hours a week, lectures, seminars and conferences, for 15 weeks. Consideration will be given to the current status of knowledge of renal function and body fluids in vertebrates, with particular reference to mammals. (Blake.)

### *Physiol. 206. Seminar.*

Credit according to work done. Weekly meetings are held to discuss recent literature and results of departmental research. (Staff.)



**Physiol. 207. *Physiology of the Central Nervous System.* (2)**

Two hours a week for 15 weeks. Lectures, seminars and reading assignments on current knowledge of central nervous system function. (Merlis.)

**Physiol. 208. *Physiology of the Autonomic Nervous System.* (2)**

Two hours a week for 15 weeks. Lectures, seminars and reading assignments on current knowledge of autonomic nervous system function. (Blake.)

**Physiol. 399. *Research.***

By arrangement with Head of the Department.

► **PREVENTIVE MEDICINE AND REHABILITATION**

*Professors:* ENTWISLE (HEAD OF DEPARTMENT) AND H. WILLIAMS.

*Associate Professors:* DOWLING, MAHONEY, TAYBACK, AND WARTHEN.

*Assistant Professors:* A. RICHARDSON, P. RICHARDSON, AND STAFF.

**Prev. Med. 101. *Biostatistics.* (17 hours)**

First year, second semester. This series of lectures illustrates the basic methods of statistical analysis and demonstrates their use in several areas of clinical investigation.

**Prev. Med. 102. *Epidemiology.* (18 hours)**

Second year. The epidemiology and control of certain diseases are considered in a series of lectures.

**Prev. Med. 103. *Applied Preventive Medicine and Rehabilitation I.* (40 hours)**

Third year. This course consists of three parts. Major disease control programs, community medical resources and medical care programs are considered during eighteen hours of lectures. Students also participate in the work of the Medical Care Clinic for the population on public assistance and make home visits on selected patients. In addition, students also make field trips with public health nurses, sanitary inspectors and vocational counselors.

**Prev. Med. 104. *Applied Preventive Medicine and Rehabilitation II.* (22 hours)**

Fourth year. Conferences on Home Survey Reports. Each student in his third year has been assigned a patient of the Medical Care Clinic whom he follows by visits to the home. He reports his observations at a small group conference organized jointly by the Departments of Preventive Medicine and Psychiatry. Consideration is given to the family inter-relations, the economic situation, the dietary habits, the sanitation, and the physical characteristics of the home as they influence the patient's disease, and how preventive and rehabilitative techniques may modify these facets.

**Rehabilitation Conference**

Students participate in discussions on patients whose disabilities offer problems concerned with the provision of suitable care during hospitalization and following discharge. An appraisal of the home and family may be made by a student visit prior to the conference.

During the medical student's assignment to the General Medical Clinic of the Outpatient Department, each student spends two afternoons at the Montebello State Hospital.

## ► PSYCHIATRY

*Professors:* BRODY (HEAD OF DEPARTMENT), MONROE, FARINHOLT, GRENELL, LOURIE, REID.

*Associate Professors:* ANDERSON, M. GUTTMACHER, HARTZ, B. POPE, H. ROBINSON, WILL, I. YOUNG.

*Assistant Professors:* HUFFER, KLEE, LISANSKY, WEINTRAUB.

*Instructors:* O'CONNOR, HOLDEN, RAHER, LIVCHITZ, AND STAFF.

*Psy. 101. Introduction to Psychiatry. (88 hours)*

First year. This course is devoted to a consideration of human relations as applied to the practice of medicine. The topics dealt with include personality development, reactions to stress, and situational and social factors in disease. The emphasis is upon observing, understanding, and evaluating the personal and social factors in the disease process, in treatment, and in prevention.

*Psy. 102a. Principles of Behavior (32 hours)*

First semester, second year. The basic concepts of behavior derived from the fields of psychology, physiology, sociology, and cultural anthropology.

*Psy. 102b. Psychopathology. (28 hours)*

Second semester, second year. An introduction to clinical psychiatry. Emphasis is placed upon descriptive, psychodynamic and prognostic features of the various psychiatric syndromes.

*Psy. 103. Psychiatric Clinical Clerkship. (3 weeks)*

Third year. Students work as clinical clerks in The Psychiatric Institute. Each student is assigned to an Assistant Resident who acts as a preceptor. As patients are admitted, they are assigned to a student who assumes responsibility for the examination and the history. In the outpatient department, the students see all patients applying for treatment either on an emergency basis or by appointment. During the evenings two students take "call" with an Assistant Resident.

*Psy. 104. Advanced Psychiatric Clinical Clerkship (4 weeks)*

Fourth year. A clinical clerkship is offered in the wards of the University Hospital for one month. Emphasis is placed on diagnosis, methods of interviewing, methods of developing and managing a therapeutic doctor-patient relationship, and carrying out psychotherapy. Two afternoons each week are spent treating patients under supervision in the Comprehensive Clinic. Each student also works with one child patient and his parents in the Mental Hygiene Clinic of the Western Health District. An 8 hour seminar on psychosomatic problems is given.

## ► RADIOLOGY

*Professors:* DENNIS (HEAD OF DEPARTMENT), BLOEDORN, DAVIDSON.

*Associate Professors:* BOUDREAU, CUCCIA.

*Assistant Professors:* LYON, WOLFEL, MERCADO, DANA DE CARLO, AND STAFF.

*Rad. 101. Radiologic Anatomy. (12 hours)*

First year, first semester. A correlated course is given in conjunction with the Department of Anatomy. This course consists of nine lecture-demonstrations devoted to the skull, chest, gastro-intestinal tract, genito-urinary tract, the spine and joints. Not only is the normal anatomy shown, but the radiologic aspects of a few pathologic processes are also shown for emphasis and correlation.

**Rad. 103. Radiation Therapy Orientation. (5 hours)**

Third year. This series of five lectures is given to the whole third year class to present the basis of radiation therapy. In the first lecture, the basic principles of radiotherapy and the present and future role of radiotherapy of malignant tumors is presented. The second lecture is devoted to the principles of radiobiology, radiophysics and radiation protection. The last three lectures deal with groups of tumors that are curable with ionizing radiation with a discussion of the principle indications, management and results of radiotherapy in each of these groups.

**Rad. 104. Radiologic Orientation I. (33 hours)**

Third year. A series of lecture-demonstrations are given to small groups of students at the Baltimore City Hospital, Mercy Hospital and the University Hospital. An attempt is made to cover the roentgen studies of all systems of the body with demonstrations of the more common lesions encountered in each system. At Baltimore City Hospital, twelve lecture-demonstrations are given on the chest, the genito-urinary tract and metabolic bone diseases, while at Mercy Hospital, three hours are devoted to the arthritides and bone tumors. At the University Hospital, eighteen additional lecture-demonstrations are devoted to the lungs, gastro-intestinal tract, heart and skull.

**Rad. 105. Radiologic Orientation II. (60 hours)**

Fourth year. Students in groups of four or five are assigned full time for a period of two weeks to the Diagnostic Division of the Department of Radiology. On alternate mornings, a student observes chest and gastro-intestinal fluoroscopy, interviews outpatients and correlates the clinical and roentgen findings on these patients and attends film reading sessions with the staff radiologists. The students are taught the basic principles of fluoroscopy and are assigned a few patients with pulmonary and cardiac lesions to fluoroscope. Recommended reading assignments are made and the students spend the afternoons studying a select group of teaching cases which are correlated with these reading assignments. Daily diagnostic conferences are held with the students, and at this time the interesting cases of the day are presented. They also attend joint conferences held with the Department of Pediatrics, and the Division of General and Thoracic Surgery.

## ► SURGERY

**Professors:** BUXTON (HEAD OF DEPARTMENT), ARNOLD, BLANCHARD, C. R. EDWARDS, HULL, KITLOWSKI, O'ROURK, PESSAGNO, ROGERS, VOSHELL, YEAGER, AND YOUNG.

**Associate Professors:** COWLEY, FOX, GARLICK, KAYSER.

**Assistant Professors:** T. R. ADAMS, ARMSTRONG, BONGARDT, BOWIE, FLOTTE, GOVATOS, HAINES, LINBERG, MANSBERGER, MAYS, SCARBOROUGH, SCHWARTZ, SIWINSKI, THOMPSON, WILDER, AND STAFF.

**Surg. 101. Principles of Surgery. (44 hours)**

Third year. Three one hour periods are devoted each week to a discussion of fundamental surgical problems and a systematic description of general surgical disease. These discussions are designed as introductions to and preparation for detailed reading in standard textbooks, current periodicals and monographs in surgery.

*Surg. 101a. Surgical Specialty Lectures. (66 hours)*

Third year. This is a continuation of Surg. 101, wherein the surgical discussions center around the problems of Otorhinolaryngology, Thoracic Surgery, Neurosurgery, Orthopedic Surgery and Urologic Surgery.

*Surg. 103. Outpatient Clerkship in Surgery. (286 hours)*

Third year. One-fourth of the third year class is assigned to the Department of Surgery each quarter of the school year. Students are assigned to the Outpatient Department for the examination and supervised care of patients in the General Surgical, Orthopedic, Urologic and ENT Clinics. One-third of this quarter is spent at Mercy Hospital. Students are assigned in rotation as clinical clerks at night in the Emergency Room.

## SUMMER FELLOWSHIPS

Fellowships are available each summer for a period of ten weeks in the Surgical Research Laboratory. Both sophomore and junior students are eligible. Investigative problems related to these services will be undertaken under the guidance of members of the Surgical Staff.

*Division of General Surgery*

**Doctors:** BUXTON, C. R. EDWARDS, HULL, PESSAGNO, YEAGER, ADAMS, BOWIE, FLOTTE, GOVATOS, SIWINSKI, BONGARDT, MANSBERGER, SCARBOROUGH, AND STAFF.

*Surg. 103a.*

This is the student's introduction to an office-type surgical practice in that he undertakes the supervised care of patients in the Surgical Dispensary. General discussions related to problems presented by these patients are given by the Surgical Staff. The introduction to specific surgical technics in examination and treatment of patients is undertaken. This course is given at both University and Mercy Hospitals. Audio-visual instruction is given. Students are assigned to the Emergency Room during this period.

*Surg. 104a.*

Senior students are assigned to patients on the surgical wards in the University Hospital. They are responsible for the physical examination, history and certain laboratory tests as required by the patient's disease. They participate in the active care and treatment of patients and in addition, have specific assignments to the Emergency Room.

*Division of Neurosurgery*

**Doctors:** ARNOLD, THOMPSON, AND STAFF.

*Surg. 104b.*

Senior students assigned to this division act in the capacity of student interns. The students are closely integrated with the House Staff and are assigned sufficient patients so that comprehensive experience in the diagnosis and treatment of neurosurgical problems is obtained. Instruction is through ward rounds and informal discussions. Wednesday mornings are devoted to clinical, x-ray and neuro-pathological conferences.



*Division of Orthopedic Surgery*

Doctors: VOSHELL, TANSEY, WILDER, AND STAFF.

*Surg. 103c.*

Junior students are assigned to this division in the Outpatient Department at University and Mercy Hospitals. Patients are seen for diagnosis and postoperative care. Instruction is given in the application of plaster casts and in the ambulatory management of orthopedic problems. Occasion is given to instruction in the Physical Therapy of patients with orthopedic disease.

*Surg. 104c.*

Senior students are assigned patients both on the surgical wards and in the Emergency Room. They participate in the care of these patients, and are given instruction in the application of traction and plaster casts. Frequent ward rounds are held at the Kernan Hospital for Crippled Children, where an Amputee Training Program is active.

*Division of Urological Surgery*

Doctors: YOUNG, MAYS, HAINES, AND STAFF.

*Surg. 103d.*

Instruction is given to junior students in this division in the diagnosis of urologic disease of both men and women. The general aspects of instrumentation are discussed and the roentgenologic evidence of urologic disease is emphasized.

*Surg. 104d.*

Students are assigned patients in the University Hospital wards. Further instruction is given in diagnosis and instrumentation of these patients and in the x-ray diagnosis of urologic disease.

*Division of Otolaryngology*

Doctors: BLANCHARD, O'ROURK, GERLACH, CROSS, MICHAEL, AND STAFF.

Mercy Hospital: DRs. SCHWARTZ, ISAACS, AND KAYSER.

*Surg. 103e.*

In a series of six periods of four hours, in the Outpatient Otolaryngology Clinic, junior students are individually instructed in the techniques of the examination of the ears, nose and throat. One hour of basic audiological technique is presented to each group by Mr. Bertram Thorne, one hour of introductory speech therapy is presented by Mr. John Carter.

*Surg. 104e.*

An advanced period of elective study with emphasis on diagnosis and treatment is available to approximately 18 senior students each year as an alternate elective surgical specialty for one month's duration. In the Outpatient Department, diagnostic problems are presented at conferences with the staff department head twice each week and thoroughly reviewed in the light of current practice. Two sessions each week are available to the student to assist in the operating room and two sessions each week are available in the bronchoesophagology clinic. Each student is responsible for evening emergency calls on Ear, Nose and Throat and examination of the patients admitted on the service. Daily ward rounds are carried out with the students.



## Division of Thoracic Surgery

Doctors: COWLEY, GARLICK, LINBERG, MILLER, AND STAFF.

### *Surg. 104f.*

Senior students participate in the care of these patients in the operating rooms and on the wards of University, Mercy and Mt. Wilson Hospitals. In addition, they receive instruction in diagnostic bronchoscopy, esophagoscopy, cardiac catheterization, angiocardiography and pulmonary function studies.

## ART AS APPLIED TO MEDICINE

WILLIAM JOHN T. AUSTIN.....*Supervisor of Medical Art*  
 CARL DAME CLARKE.....*Associate Professor of Art as Applied to Medicine*  
 THOMAS M. STEVENSON, JR.....*Instructor in Art as Applied to Medicine*

This Department is maintained to supply visual teaching aids in the form of lantern slides, graphic charts, medical drawings, and a limited number of motion pictures showing clinical and surgical techniques.

# Postgraduate Courses

## COMMITTEE ON POSTGRADUATE STUDIES

PATRICK B. STOREY, *Chairman*

ELIZABETH B. CARROLL, *Executive Secretary*

WALTER A. ANDERSON	ALBERT E. GOLDSTEIN	RUSSELL R. MONROE
WILLIAM D. BLAKE	LAD F. GRAPSKI	HARRY M. ROBINSON, JR.
J. EDMUND BRADLEY	ARTHUR L. HASKINS	EDWIN R. RUZICKA
ROBERT W. BUXTON	JOHN H. HORNBAKER	MILTON S. SACKS
RAYMOND L. CLEMMENS	GERALD D. KLEE	LEONARD SCHERLIS
CHARLES H. CONLEY	JOHN C. KRANTZ, JR.	WILLIAM S. SPICER, JR.
THOMAS B. CONNOR	WILLIAM B. LONG	WILLIAM A. VAN ORMER
EDWARD F. COTTER	ARLIE R. MANSBERGER, JR.	THEODORE E. WOODWARD
HARLAN I. FIRMINGER	EDMUND B. MIDDLETON	GEORGE H. YEAGER

### *Ex-Officio Members*

WILLIAM S. STONE, *Dean of the School of Medicine*

ARTHUR G. SIWINSKI, *President of Medical Alumni Association*

ANDREW C. MITCHELL, *President, Maryland Academy of General Practice*

The program of postgraduate medical education at the University of Maryland is designed to provide the opportunity for all practicing physicians to keep abreast of the rapid developments in the science and practice of medicine.

Individual or group instruction is available. Any individual physician who is interested in developing some particular knowledge or skill should contact the office of the Postgraduate Committee directly.

The major group courses offered or planned for 1960-61 are listed below. Inquiry about any of these courses is welcomed.

*Advances In Medical Science.* To be given annually and designed to familiarize physicians with the recent advances in the medical science. The course is given in 19 periods of 2 hours duration, weekly, from January through May. Tuition is \$50.00.

*Basic Electrocardiography.* Designed to teach clinical electrocardiography, incorporating basic electrophysiological concepts. January 19, 20, 21, 1961. Tuition is \$60.00 including luncheon each day.

*Clinical Anatomy.* Designed to prepare candidates for the examination of Anatomy of the American Board of Surgery. This is a 90-hour course (3 hours a day, 2 days a week for 15 weeks) beginning with second semester of medical school, and given in conjunction with the regular sophomore medical class. Tuition is \$150.00.

*Industrial Medicine and Occupational Health.* A 2-day course given annually. Designed for physicians, nurses, safety engineers in industry and industrial hygienists. Tuition is \$20.00.

*General Anatomy.* Designed to prepare candidates for the examination of the American Board of General Surgery and Surgical Specialists. There is no strict rule governing either the content or duration of the course. Students may dissect a complete cadaver or any particular region in which they are interested. Tuition is arranged according to content and duration.

*Advanced Neuropathology.* A course for the practicing pathologist, given annually. Class is limited. Tuition, \$125.00 including luncheon and dinner.

*Neuropathology.* Designed to aid in meeting the requirements of the Specialty Boards in Neurological Sciences, and covers basic studies in diseases of the central nervous system. Duration is six months, full time. Tuition is \$200.00 plus \$10.00 laboratory fee.

## LECTURERS IN POSTGRADUATE MEDICINE 1959-1960

Warde B. Allen	William D. Gentry	Benjamin Pope
Marie Andersch	Sheldon Greisman	Herbert Reifschneider
James G. Arnold, Jr.	Arthur L. Haskins	Samuel T. R. Revell, Jr.
Anne Baetjer	Ray Hepner	Harry M. Robinson, Jr.
Edmund G. Beacham	Leon Hetherington	Raymond C. V. Robinson
Eugene S. Bereston	Mark B. Hollander	Guilford Rudolph
Samuel P. Bessman	Walter James	Benjamin F. Rush, Jr.
Harvey Blank	Alma B. Kelly	Milton S. Sacks
Fernando G. Bloedorn	Richard F. Kieffer	Leonard Scherlis
Francis J. Borges	John C. Krantz, Jr.	Sidney Scherlis
Katharine R. Boucot	Louis A. M. Krause	Nathan Schnaper
Harry C. Bowie	Henricus Kuypers	Adalbert F. Schubart
J. Edmund Bradley	F. Benedict Lanahan	William B. Settle
Otto C. Brantigan	Eugene L. Linberg	Joseph E. Smadel
Raymond M. Burgison	Gunnbjorg Lindseth	Vernon M. Smith
Meyer M. Cardin	Ephraim T. Lisansky	Merrill J. Snyder
Morris M. Cohen	Clarence Martin	William S. Spicer, Jr.
Thomas B. Connor	Robert L. Maycock	Carroll L. Spurling
Frank E. Cormia	Fred R. McCrumb, Jr.	John C. Stauffer
R. Adams Cowley	Herbert Mescon	William S. Stone
Charles Davidson	Joseph T. Michels	Patrick B. Storey
Nachman Davidson	Claude J. Migeon	William B. Tucker
John M. Dennis	John E. Miller	Charles Van Buskirk
Robert J. Dickson	Wm. K. C. Morgan	John A. Wagner
● Daniel T. Doherty	Wm. H. Mosberg, Jr.	W. Wallace Walker
J. Sheldon Eastland	G. Allen Moulton	Geo. M. Wilkening
Wm. Carl Ebeling III	Zuher M. Naib	Lawson Wilkins
Francis A. Ellis	Carl T. Nelson	Chas. L. Wisseman, Jr.
John F. Enders	Philip S. Norman	John G. Wiswell
L. Whiting Farinholt, Jr.	Francis W. O'Grady	Victor Witten
Harlan I. Firminger	Albert H. Owens	Donald A. Wolfel
John K. Frost	Ross Z. Pierpont	Theodore E. Woodward
William J. Fulton	Maurice C. Pincoffs	Joseph B. Workman

# Matriculants

## FIRST YEAR

<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Ashman, Michael Nathan, A.B.	<i>Johns Hopkins University</i>	Maryland
Ashman, Philip Miller, A.B.	<i>Hobart College, 1960</i>	Maryland
Asplen, Charles Henry, B.S.	<i>University of Maryland, 1954</i>	Maryland
Baker, Lynn Bradley, A.B.	<i>Franklin &amp; Marshall, 1960</i>	Maryland
Beasley, Steven Edwards, B.S.	<i>University of Maryland, 1958</i>	Maryland
Becker, Larry, B.A.	<i>Johns Hopkins University, 1960</i>	Maryland
Biggs, Richard D., Jr., A.B.	<i>Princeton University, 1960</i>	Maryland
Bohlman, Henry Hubert, B.S.	<i>Washington &amp; Lee, 1959</i>	Maryland
Bruce, William Gregory, A.B.	<i>Transylvania College, 1960</i>	Maryland
Byers, William Seal, B.S.	<i>Franklin &amp; Marshall, 1960</i>	Maryland
Ching, Lap Chong, A.B.	<i>Johns Hopkins University, 1960</i>	Hong Kong
Cohen, Barry Marvin, A.B.	<i>Duke University, 1960</i>	Maryland
Collins, Chester Cattell, Jr., B.S.	<i>University of Maryland, 1960</i>	Maryland
Colon, Gustavo Alberto, B.A.	<i>Johns Hopkins University, 1960</i>	Puerto Rico
Conroy, John Joseph, B.S.	<i>Loyola College, 1960</i>	Maryland
Coplin, Michael Nathan, A.B.	<i>University of Pennsylvania, 1960</i>	New Jersey
Culotta, Dominic Anthony, B.S.	<i>Loyola College, 1960</i>	Maryland
Cushard, William G., Jr., A.B.	<i>University of Maryland, 1960</i>	Maryland
Dayton, David Amsbry, B.S.	<i>Bucknell University, 1960</i>	Pennsylvania
Dear, William Allan, Jr., B.S.	<i>University of Maryland, 1959</i>	Maryland
deBeck, Thomas Wade, A.B.	<i>University of Virginia, 1960</i>	Maryland
Deinlein, Donald Anthony, B.S.	<i>Loyola College, 1959</i>	Maryland
Detorie, Frank Mariano, A.B.	<i>Loyola College, 1960</i>	Maryland
Donohue, Salvatore Robert, A.B.	<i>Loyola College, 1959</i>	Maryland
Dowler, Lawrence Earl, A.B.	<i>Western Maryland College, 1959</i>	New Jersey
Doyle, Robert Lawrence, B.S.	<i>Loyola College, 1959</i>	Maryland
Engelike, George Edmund, B.S.	<i>Georgetown University, 1960</i>	Maryland
Francis, Earlie Hill, Jr., M.S.	<i>Howard University, 1960</i>	Maryland
Gingell, Robert Loring, B.S.	<i>American University, 1960</i>	Maryland
Glass, Simon David, B.S.	<i>University of Maryland, 1960</i>	Maryland
Goldstein, Marvin Norman, A.B.	<i>Western Maryland College, 1960</i>	Maryland
Gordon, Albert Morton, B.S.	<i>University of Maryland, 1960</i>	Maryland
Gresser, Lee Edwin, B.S.	<i>University of Maryland, 1960</i>	Maryland



<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Haendler, Manuel, B.S.	Loyola College, 1960	Maryland
Hale, Boyd J., A.B.	Brigham Young University, 1960	Idaho
Handwerker, Stuart, A.B.	Johns Hopkins University, 1960	Maryland
Harrington, Robert, A.B.	Johns Hopkins University, 1960	Illinois
Harrison, Charles Simeon, A.B.	Kent State University, 1958	Maryland
Hartman, Ira Franklin, A.B.	West Virginia Wesleyan, 1960	West Virginia
Hiley, Paul Culverwell, B.S.	Wheaton College, 1960	Maryland
Jones, Euclid Howard, B.S.	Bridgewater College, 1956	Maryland
Kaufman, Matthew Lewis, A.B.	University of Michigan, 1960	New York
Kelly, Richard John, B.S.	University of Maryland, 1959	Maryland
Key, Stanley Edward, Jr., A.B.	Columbia University, 1951	Maryland
Kirchenbauer, Stanley John, B.S.	University of Miami, 1960	Maryland
Krugman, Mark Evans, A.B.	Union College, 1960	New York
Lee, Charles Dudley, Jr., B.S.	Morgan State College, 1960	Maryland
Lewers, Donald Theodore, B.S.	University of Maryland, 1960	Maryland
Lichtenstein, Miriam Leah	University of Maryland	Maryland
Lindenstruth, Daniel V., B.S.	Georgetown University, 1960	Maryland
Luddy, Ruth Elizabeth, A.B.	Notre Dame of Maryland, 1960	Maryland
Lutz, John Howard, A.B.	Johns Hopkins University, 1960	Maryland
McGinley, Edgar Victor, A.B.	Bucknell University, 1960	New Jersey
Michaelis, Milton	George Washington University	Maryland
Mindel, Joel Sidney, A.B.	Swarthmore College, 1960	Maryland
Mucher, Samuel, B.S.	University of Maryland, 1960	Maryland
Mueller, John G., A.B.,	Duke University, 1953	
	U. of Md. Dental School, 1957	Maryland
Munzner, Jo Ann G., A.B.	Notre Dame of Maryland, 1957	Maryland
Myers, Raphael C., Jr., A.B.	University of Virginia, 1957	Virginia
Nagel, Jacob David, B.S.	Loyola College, 1960	Maryland
Nichols, David Monroe, Jr., A.B.	Washington & Lee Univ., 1958	Maryland
Parks, John Thomas, A.B.	Virginia Military Inst., 1957	Maryland
Pelczar, Michael Eugene, A.B.	Loyola College, 1960	Maryland
Pereyo, Neville, B.S.	University of Puerto Rico, 1960	Puerto Rico
Pleet, Albert Bernard	University of Maryland	Maryland
Porter, Thomas Jenks, B.S.	San Diego State College, 1957	California
Protzel, Richard Marvin, A.B.	University of Virginia, 1960	New Jersey
Quinones, Jose Dulcidio, B.S.	University of Puerto Rico, 1960	Puerto Rico
Ratino, John Manfred, B.S.	University of Maryland, 1959	Maryland
Reckson, Charles Evans	University of Maryland	Florida
Reichmister, Jerome Paul, A.B.	Johns Hopkins University, 1960	Maryland
Robbins, Edgar Lee, A.B.	Dartmouth College, 1960	Maryland
Rochowiak, Michael W., B.S.	Loyola College, 1959	Maryland
Rosenbaum, Barry Norman, B.S.	University of Maryland, 1960	Maryland
Ruley, Edward Jerome, B.S.	The Citadel, 1960	Maryland
Saiontz, Marvin Frederick, B.S.	University of Maryland, 1959	Maryland
Schmitter, Eric Dean	University of Maryland	Maryland
Schoen, Allan Elias, A.B.	Western Reserve Univ., 1960	Maryland
Schwartz, Allen David, A.B.	Johns Hopkins University, 1960	Maryland
Schwartz, William E., A.B.	Johns Hopkins University, 1960	Maryland

<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Seidman, Sidney Bernard, B.S.	University of Maryland, 1957	Maryland
Shelton, Perry Shipley	University of Maryland	Maryland
Shugarman, Richard G., A.B.	Johns Hopkins University, 1960	Maryland
Simpson, Herbert Paul, A.B.	Thiel College, 1959	Pennsylvania
Solomon, Lawrence Franklin	University of Maryland	Maryland
Spector, Gershon, A.B.	Johns Hopkins University, 1960	Maryland
Standiford, Harold Clark, A.B.	Johns Hopkins University, 1960	Maryland
Steffens, Mona Barbara, B.S.	University of Maryland, 1960	Maryland
Steinberg, Louis Edward, B.S.	University of Maryland, 1960	Maryland
Stoner, Robert Elmer, A.B.	Rutgers University, 1960	Maryland
Tuerk, Jonathan David, A.B.	Dartmouth College, 1960	Maryland
Ware, Winthrop Horace, A.B.	University of Buffalo, 1950	Maryland
Weagly, John Kirkwood, A.B.	Western Maryland College, 1960	Maryland
Weir, Walter Douglas, A.B.	St. John's College, 1958	Maryland
Wilson, Sherwood Ewell, B.S.	New York University, 1959	Maryland
Wood, Donald Michael, B.S.	Notre Dame College, Ind., 1960	Maryland
Yalam, Arnold Robert, A.B.	Johns Hopkins University, 1960	New York
Young, Marston Alexis, A.B.	Johns Hopkins University, 1959	Maryland

## SECOND YEAR

Adels, Barry Robert, A.B.	University of Rochester, 1958	New York
Amitin, Sigmund Allen, B.S.	University of Maryland, 1959	Maryland
Beazley, Robert Montague, B.S.	University of Maryland, 1959	Maryland
Belinic, Richard John, A.B.	Dartmouth College, 1959	Maryland
Bigbee, Thomas Paul, B.S.	University of Maryland, 1959	Maryland
Brauer, Lee David, A.B.	Princeton University, 1959	New Jersey
Braver, David Allan, B.S.	Ohio State University, 1957	Maryland
Brazauskas, Nijole V., B.S.	University of Maryland, 1961	Maryland
Bryan, Everett Davidson, B.S.	Franklin & Marshall, 1958	Delaware
Bufalino, Russell Charles, B.S.	University of Maryland, 1959	Maryland
Busch, Eugene Martin, B.S.	Franklin & Marshall, 1959	Maryland
Byers, Robert Maxwell, A.B.	Duke University, 1959	North Carolina
Campbell, Harold J., Jr., B.S.	University of Maryland, 1959	Maryland
Cohen, Stephen Peter, A.B.	Middlebury College, 1959	New Jersey
Coyne, John Michael, B.S.	University of Maryland, 1959	Maryland
Culp, Clifford Lewis, Jr., A.B.	Johns Hopkins University, 1957	Maryland
Czechowicz, Dorynne Joan, B.S.	University of Maryland, 1959	New Hampshire
Dagon, Ann Blaise, A.B.	George Washington Univ., 1959	Maryland
Dawkins, Albert T., Jr., B.S.	Western Maryland College, 1959	Maryland
Dinker, Robert E., B.S.	University of Maryland, 1958	Maryland
Doerfer, John Page, B.S.	George Washington Univ., 1959	Maryland
Elder, Thaddeus Harry, Jr., B.S.	University of Maryland, 1949	Maryland
Friedman, Melvin Miles, B.S.	University of Maryland, 1959	Maryland
Fringer, David L. B., Jr., A.B.	Princeton University, 1959	Maryland
Fuchs, Mrs. Alice Marie S., B.S.	College of Mt. St. Vincent, 1959	Maryland
Garrison, Leland Michael, A.B.	Stanford University, 1959	California

<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Giangrandi, Robert B., B.S.	Loyola College, 1959	Maryland
Gilden, Donald Harvey, A.B.	Dartmouth College, 1959	Maryland
Goldman, Richard Louis, B.S.	Johns Hopkins University, 1958	Maryland
Gordon, Joep Spender, A.B.	Johns Hopkins University, 1959	Maryland
Harvey, C. A., B.S.	University of Maryland, 1959	Virginia
Hayes, Michael Gilbert, B.S.	University of Maryland, 1959	Maryland
Hazard, Robert Gunnell, B.S.	University of Maryland, 1956	Maryland
Heisler, Alice B., A.B.	University of Maryland, 1959	Maryland
Hess, David Robert, Jr.	Franklin & Marshall College	Pennsylvania
Hoffman, Arnold James, B.S.	University of Maryland, 1959	Maryland
Howard, Wm. Hand B., A.B.	Johns Hopkins University, 1959	Maryland
Hyman, Nelson, B.S.	University of Chicago, 1959	Maryland
Inglesby, Thos. Vincent, B.S.	Mt. St. Mary's College, 1959	Maryland
Insley, Philip Asbury, Jr., B.S.	Washington & Lee, 1959	Maryland
Joeres, Manfred Klaus, A.B.	Western Maryland College, 1959	Maryland
Jules, Arnold Jay, A.B.	Duke University, 1959	Maryland
Kaminski, Paul Felix, B.S.	Loyola College, 1959	Maryland
Katzen, Leeds E., B.S.	University of Maryland, 1958	Maryland
Kennan, Richard B., Jr., B.S.	Wofford College, 1958	Maryland
King, Wm. Anthony, B.S.	Loyola College, 1959	Maryland
Knopf, Merrill Monroe, B.S.	Loyola College, 1959	Maryland
Lamb, Arthur Clifton, Jr., A.B.	Brown University, 1959	Maryland
Levin, Michael Lee, A.B.	Johns Hopkins University, 1959	Maryland
Lindgren, Carleton Jay, B.S.	Iowa State College, 1956	Maryland
Lindstrom, Eric Everett, B.S.	Wheaton College, 1959	Montana
Magee, Kenneth George, B.S.	University of Maryland, 1958	New Jersey
McLean, Barbara Ann, A.B.	Notre Dame of Maryland, 1959	Maryland
Merchant, Ralph Preston, A.B.	Johns Hopkins University, 1959	Maryland
Minkin, Stanley Lewis, B.S.	University of Maryland, 1958	Maryland
Mock, Chas. Robert, A.B.	University of Maryland, 1956	Maryland
Moore, Philip Harvey, B.S.	Loyola College, 1959	Maryland
Mules, Janet Elaine, A.B.	Bryn Mawr College, 1956	Maryland
Okerlund, Michael Dennis	University of Maryland	Maryland
Oster, Herbert Gerald, B.S.	University of Maryland, 1958	Maryland
Padilla-Ramirez, Hernan, B.S.	University of Puerto Rico, 1959	Puerto Rico
Perkal, Stuart Allen	Johns Hopkins University, 1959	Maryland
Petrakis, John K., Jr., A.B.	Johns Hopkins University, 1959	Maryland
Piat, Robert David, B.S.	University of Florida, 1956	Florida
Prendergast, Neal Joseph, B.S.	University of Notre Dame, 1959	Maryland
Rasmussen, Brian Louis, B.S.	University of California, 1958	Utah
Ray, Horace Truman, Jr., A.B.	University of N. Carolina, 1958	N. Carolina
Rivosecchi, Leonard G., B.S.	Queens College, N. Y., 1955	New York
Rodriguez, Hector Luis, B.S.	Georgetown University, 1959	Puerto Rico
Roe, Chas. Ruzicka, A.B.	Duke University, 1959	Maryland
Roland, Norman Barry	University of Maryland, 1959	Maryland
Rosen, Norman Benjamin, A.B.	Johns Hopkins University, 1959	Maryland
Rubenstein, Benj. Barry, B.S.	University of Maryland, 1959	Maryland
St. John, Miles Eugene, B.S.	Johns Hopkins University, 1958	Maryland



<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Saneman, Paul Philip, B.S.	Loyola College, 1959	Maryland
Schwartz, Mayer, A.B.	Brandeis University, 1959	Maryland
Shervington, Walter W., A.B.	University of Pennsylvania, 1959	Maryland
Smith, Arthur Mattus, A.B.	Cornell University, 1959	New York
Sollod, Mitchell Carl	University of Maryland, 1958	Maryland
Spalt, Harry Alfred, A.B.	Rutgers University, 1953	Maryland
Stecher, Karl, Jr., A.B.	Harvard College, 1959	Maryland
Stojanovich, Kosta Bragoljub	University of Maryland, 1958	New York
Tountas, Peter Chris, B.S.	University of Maryland, 1958	Maryland
Travisano, Frank Joseph, A.B.	Johns Hopkins University, 1958	Maryland
Weatherly, DeWitt Lee, A.B.	University of Maryland, 1959	Maryland
Werner, Edward Cornelius, A.B.	Yale University, 1959	New York
Williams, John Mann, A.B.	Western Maryland, 1951	Maryland
Williams, McRae Whitaker, A.B.	Yale University, 1958	Maryland
Wilson, Joseph Robert, A.B.	Johns Hopkins University, 1959	Maryland
Wolf, Aron, A.B.	Dartmouth College, 1959	New Jersey
Wolski, Eugene Joseph, B.S.	Loyola College, 1959	Maryland
Wyte, Steven Robert, B.S.	American University, 1959	Maryland

### THIRD YEAR

Anderson, Ian Russell, A.B.	LaSierra College, 1958	Maryland
Baker, Joseph Fred, B.S.	University of Maryland	Maryland
Bahr, Raymond Donald, B.S.	University of Maryland	Maryland
Barrick, Donald M., A.B., A.A.	Geo. Washington Univ., 1958	Maryland
Baumann, Christian G., B.S.	Univ. of North Dakota, 1957	North Dakota
Berman, Merrill Ian, A.B.	Johns Hopkins University, 1957	Maryland
Bokat, Robert Bruce, B.S.	University of Maryland, 1958	Maryland
Bonovich, Kermit P., B.S.	University of Maryland, 1954	Maryland
Bowman, Jack Wallace, A.B.	University of Maryland, 1958	Maryland
Bradley, Mark Edmund, B.S.	Notre Dame University, 1958	Maryland
Breschi, Louis Carle, B.S.	Loyola College, 1958	Maryland
Broughton, Bruce David, A.B.	Univ. of South. California, 1957	California
Buchmann, John Ulrich, B.S.	University of Maryland, 1960	Maryland
Burgan, Paul, B.S.	University of Maryland, 1958	Maryland
Burke, Francis Joseph, A.B.	Providence College, 1954	Rhode Island
Caplan, Louis Robert, A. B.	Williams College, 1958	Maryland
Carozza, Frank Andrew, Jr., A.B.	Lehigh University, 1958	Maryland
Child, David Leighton, A.B.	Dartmouth College, 1958	New Hampshire
Closson, Jon Barber, A.B.	University of Maryland, 1958	Maryland
Cohen, Alan Bernard, A.B.	Duke University, 1958	Maryland
Cramton, David Chester, A.B.	Univ. of Pennsylvania, 1957	Pennsylvania
Cullis, Thomas Carlton,	Washington College	Maryland
Dugan, Hammond J., III, A.B.	Holy Cross College, 1958	Maryland
Edgar, Paul James, B.S.	Loyola College, 1958	Maryland
Ensor, Paul Gittings, A.B.	West. Maryland College, 1957	Maryland
Farinholt, Jon Whiting, A.B.	Princeton University, 1958	Maryland

<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Felser, Frederick Samuel, A.B.	<i>Univ. of Pennsylvania, 1958</i>	Maryland
Ferber, Louis Mildred, B.S.	<i>University of Michigan, 1957</i>	Michigan
Feuerman, Harvey Samuel, B.S.	<i>University of Maryland, 1958</i>	Maryland
Figelman, Leonard Jay	<i>University of Maryland</i>	Maryland
Franklin, Anselm Leo, B.S.	<i>University of Maryland, 1958</i>	Maryland
Fratto, Carmen Anthony, B.S.	<i>University of Maryland, 1958</i>	New Jersey
Friedman, Michael, A.B.	<i>West. Maryland College, 1958</i>	New York
Gaither, Herbert, B.S.	<i>Dickinson College, 1958</i>	Maryland
Gallager, Laurence R., A.B.	<i>Haverford College, 1958</i>	Maryland
Gendason, Howard Hess, A.B.	<i>West. Maryland College, 1957</i>	Maryland
Goldstein, Burton David, A.B.	<i>Johns Hopkins University, 1958</i>	Maryland
Harris, Jay Evans, A.B.	<i>Johns Hopkins University, 1958</i>	Maryland
Hawkins, Irvin F., Jr., B.S.	<i>University of Maryland, 1958</i>	Maryland
Haws, John Philip, A.B.	<i>Princeton University, 1958</i>	Maryland
Heinritz, Colen Clifford, B.S.	<i>University of Maryland, 1951</i>	Maryland
Hills, Joseph Dixon, A.B.	<i>Princeton University, 1954</i>	Maryland
Hoffenberg, Robert Alan, B.S.	<i>Franklin &amp; Marshall, 1958</i>	Maryland
Hunt, Edward Ostend, B.S.	<i>Capitol University, 1958</i>	Maryland
Johnstone, Wm. Thompson, B.S.	<i>University of Maryland, 1958</i>	Ohio
Karpers, Bernard S., Jr., B.S.	<i>Loyola College, 1958</i>	Maryland
Katz, Mayer M., A.B.	<i>Johns Hopkins University, 1958</i>	Maryland
Kaufman, Stephen Howard, A.B.	<i>Johns Hopkins University, 1958</i>	Maryland
Klatsky, Stanley Albert, B.S.	<i>University of Maryland, 1956</i>	Maryland
Klimes, Ronald Louis, A.B.	<i>Johns Hopkins University, 1958</i>	Maryland
Koenigsberg, Edward Jay, B.S.	<i>University of Maryland, 1958</i>	Maryland
Kohlhepp, Paul Anthony, B.S.	<i>Loyola College, 1958</i>	Maryland
Kopilnick, Melvin David, B.S.	<i>Franklin &amp; Marshall, 1957</i>	Maryland
Lachman, Alan Barry, A.B.	<i>Haverford College, 1957</i>	D. C.
Lanphear, David Marshall, B.S.	<i>Lehigh University, 1956</i>	Pennsylvania
Law, William Rawlins, A.B.	<i>Loyola College, 1957</i>	Maryland
Lehman, Dennis Lynn, A.B.	<i>University of N. Dakota, 1959</i>	North Dakota
Lindberg, Bruce Alan, A.B.	<i>Clark University, 1958</i>	Massachusetts
Ling, Alfred Soy Chou, A.B., M.Sc.,	<i>Princeton University, 1948</i> <i>Univ. of Illinois, 1950</i>	
Ph.D.,	<i>Univ. of Maryland, 1959</i>	Maryland
Ling, Johnson Soy Long, B.A.	<i>New York University, 1945;</i>	
M.Sc.,	<i>1948;</i>	
Ph.D.,	<i>University of Maryland, 1953</i>	Maryland
Lott, Leymond Webster, B.S.	<i>Loyola College, 1956</i>	Pennsylvania
Love, Lois Hosbach, A.B.	<i>Swarthmore College, 1943;</i>	Maryland
M.S.,	<i>Univ. of Pennsylvania, 1945;</i>	
Ph.D.,	<i>1948</i>	
Luxenberg, Edwin Ralph, B.S.	<i>University of Maryland, 1958</i>	Maryland
MacMurray, Peter Starrett, B.S.	<i>University of Maryland, 1959</i>	Maryland
Malan, Kenneth Peck, B.S.	<i>Brigham Young Univ., 1958</i>	Utah
Mastan, Peter Frank, A.B.	<i>U. C. L. A., 1958</i>	California
McCormick, Robert A., A.B.	<i>West. Maryland College, 1958</i>	Maryland



<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Merring, Leroy Lawrence, A.B. M.Sc.,	Catholic Univ. of America, 1956; G. Washington Univ., 1957	Wyoming
Moshang, Thomas, Jr., A.B.	Columbia University, 1958	New York
Musgjerd, David Gene, A.B.	University of N. Dakota, 1959	N. Dakota
O'Rourke, Thomas Rutter, Jr.	University of Maryland	Maryland
Orton, Kenneth Thomas, B.S.	Brigham Young Univ., 1958	Utah
Patterson, Theodore Carter, B.S.	Morgan State College, 1954	Maryland
Paul, David Brownlie, B.S.	Wagner College, 1956	Virginia
Pet, Donald David, A.B.	Johns Hopkins University, 1957	Maryland
Peterson, Verne Albert, A.B.	University of Utah, 1957	Utah
Pratt, Jordon Crandal, B.S.	University of Maryland, 1958	Maryland
Pullen, Phylis K., A.B.	Goucher College, 1944	Maryland
Rupke, John Allen, A.B.	Calvin College, 1953	D. C.
Satou, Alan Henry, B.S.	Loyola College, 1958	Maryland
Schmieler, George Carl, B.S.	University of Maryland, 1958	Pennsylvania
Semer, Howard Alan, A.B.	Cornell University, 1958	New Jersey
Shefferman, Michael M., A.B.	Johns Hopkins University, 1958	Maryland
Sophocleus, Gregory John, B.S.	University of Maryland, 1956	Maryland
Sothoron, Warren H., Jr., B.S.	Juniata College, 1958	Maryland
Steinwald, Osmar Paul, Jr., A.B.	Johns Hopkins University, 1958	Maryland
Stephenson, Richard Rider, B.S.	University of Maryland, 1958	Maryland
Traum, Arthur William, A.B.	Brown University, 1958	Maryland
Tuttle, Kenneth William, B.S.	Oregon State College, 1958	Oregon
Updike, Ralph Evans, B.S.	University of Maryland, 1954	Maryland
Vilk, Victor Joseph, A.B. M.A.,	Montana State University, 1951; 1954	Montana
Weglicki, Wm. Bernard, Jr., B.S.	Loyola College, 1958	Maryland
Weiss, Donald Harry, B.S.	West. Maryland College, 1958	Maryland
Whorton, Margaret E., A.A. A.B.,	Hagerstown Jr. College, 1955 West. Maryland Coll., 1958	Maryland
Wilgis, Edward Ford Shaw, A.B.	Princeton University, 1958	Maryland
Wood, Wm. Holmes, Jr., A.B.	Johns Hopkins University, 1956	Vermont
Zampielo, Frank Albert, A.B.	Johns Hopkins University, 1958	Connecticut
Zikoski, Paul Leonard, B.S.	University of Scranton, 1953	Pennsylvania

#### FOURTH YEAR

Acosta-Otero, Andres A.	University of Puerto Rico	Puerto Rico
Appleton, James R., A.B.	University of Iowa, 1957	Iowa
Arbegast, Neil Richard	University of Maryland	Maryland
Bachur, Nicholas R., B.A.	Johns Hopkins University, 1954	Maryland
Bandy, George Eugene	Bowling Green State University	Ohio
Battaille, Joseph Chander, A.B.	Catholic Univ. of America, 1956	Tennessee
Berkow, Joseph William, A.B.	Johns Hopkins University, 1957	Maryland
Berner, Carl Frederick, A.B.	Cornell University, 1957	Indiana
Bing, Oscar Harold L., B.S.	Washington & Lee Univ., 1956	New York

<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Blum, Myron Barry, A.B.	<i>Johns Hopkins University, 1957</i>	Maryland
Boccuti, Anthony Russell, A.B.	<i>Johns Hopkins University, 1957</i>	Maryland
Breslin, Thomas Grimmer, A.B.	<i>Brown University, 1957</i>	Rhode Island
Brouillette, Joseph N., D.D.S.	<i>University of Maryland, 1954</i>	Vermont
Browell, John Jr., B.S.	<i>University of Maryland, 1957</i>	Maryland
Bulger, James Carroll, Jr., B.S. D.D.S.,	<i>University of Maryland, 1950</i> <i>Balto. Coll. Dental Surg., 1955</i>	Maryland
Buschman, Milton Herbert, Jr.	<i>University of Maryland</i>	Maryland
Cain, Ronald Louis	<i>University of Virginia</i>	Maryland
Cerda, James John, B.S.	<i>University of Maryland, 1957</i>	Maryland
Clark, Francis Alden, Jr.	<i>West Virginia University</i>	West Virginia
Clark, John Warden, A.B.	<i>Brown University, 1957</i>	Maryland
Clarke, Angela Webb	<i>Morgan State College</i>	Maryland
Cloninger, Kenneth Lee, Jr., B.S.	<i>Davidson College, 1957</i>	N. Carolina
Davidson, Maurice M., A.B.	<i>Johns Hopkins University, 1956</i>	Maryland
Delli-Pizzi, Gregory Michael	<i>University of Maryland</i>	New York
Devenport, Karl Warner, B.S.	<i>University of Utah, 1954</i>	Idaho
Diacoyanis, John Nicholas, B.S.	<i>University of Maryland, 1955</i>	Maryland
Dudney, William Henry, A.B.	<i>Univ. of South. California, 1957</i>	California
Fall, Daniel Joseph, A.B.	<i>Loyola College, 1957</i>	Maryland
Farrish, Grover C., M., A.B.,	<i>Dartmouth College, 1957</i>	Maryland
Faw, Bernadine Carol, A.B.	<i>Notre Dame Col. of Md., 1957</i>	Maryland
Fink, Robert Allan	<i>Loyola College</i>	Maryland
Fleming, Wm. Rudd, Jr., A.B.	<i>Oberlin College, 1957</i>	Maryland
Forbes, Redwell Kay, A.B.	<i>Duke University, 1956</i>	N. Carolina
Girod, Carlos E.	<i>University of Puerto Rico</i>	Puerto Rico
Glass, Leonard W., B.S., M.S.	<i>Franklin &amp; Marshall, 1956</i> <i>Rutgers University, 1957</i>	Maryland
Goodman, Jay Stanford, A.B.	<i>Haverford College, 1957</i>	Maryland
Gutberlet, Ronald Louis, A.B.	<i>Washington &amp; Lee Univ., 1956</i>	Maryland
Henck, Samuel Howard, A.B.	<i>Eastern Nazarene College, 1957</i>	Maryland
Heymann, Robert L., A.B.	<i>Loyola College, 1957</i>	Maryland
Hofkin, Gerald Alan, A.B.	<i>Johns Hopkins University, 1957</i>	Maryland
Holz, Richard Gareth, A.B.	<i>Loyola College, 1957</i>	Maryland
Hooper, James Lewis	<i>University of Maryland</i>	Maryland
Ifarraguerrri, Carlos E., A.B.	<i>Univ. of Puerto Rico, 1957</i>	Puerto Rico
Kempthorne, Gerald C., B.S., M.S.,	<i>University of Wisconsin, 1956</i> <i>1957</i>	Wisconsin
Krome, Ronald Lee, B.S.	<i>University of Maryland, 1957</i>	Maryland
Kronthal, Alfred, B.S.	<i>Loyola College, 1957</i>	Maryland
Langeluttig, Harry V., Jr., A.B.	<i>Johns Hopkins University, 1956</i>	Maryland
Lankford, Philip Woodson, B.S.	<i>Juniata College, 1957</i>	Pennsylvania
Leventhal, Marc Stephen, A.B.	<i>Johns Hopkins University, 1957</i>	D. C.
Light, John P., A.B., B.A.,	<i>Potomac State School, 1950</i> <i>Univ. Pennsylvania, 1952</i>	Maryland
Litrenta, David Edward	<i>Washington College</i>	Maryland
Ludicke, Robert Ernest, B.S.	<i>Mt. St. Mary's College, 1957</i>	Maryland

<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Mahoney, Jerome Joseph, B.S.	Loyola College, 1957	Maryland
Marsh, John Rankin, A.B.	Western Maryland College	Maryland
McCarter, James F.	University of Maryland	Maryland
McGeoy, Thomas James, Jr.	University of S. Carolina	Maryland
Mehl, Roger Lee, A.B.	University of Washington, 1957	Washington
Miller, Gerald Allan, B.S.	University of Maryland, 1957	Maryland
Morreels, Chas. Louis, Jr., A.B.	Johns Hopkins University, 1957	Maryland
Myerburg, Robert Jerome	Johns Hopkins University	Maryland
Oldstone, Michael B., B.S.	University of Alabama, 1954	New York
Ortel, Rodney Linwood, A.B.	Univ. of Pennsylvania, 1957	Maryland
Oster, Walter Filmore, B.S.	University of Maryland, 1956	Maryland
Ottenritter, Lewis Antoine, B.S.	Loyola College, 1957	Maryland
Pazourek, Lawrence Joseph, B.S.	Loyola College, 1957	Maryland
Presser, Clifton Conlyn, B.S.	Capitol University, 1957	Maryland
Rasmussen, Kenneth E., A.B.	Sterling College, 1954	Maryland
B. Div.	Pittsburgh Sem., 1950	
Reeder, Paul Arlington, Jr., B.S.	Ohio State University, 1955	Ohio
Reeves, John Albert	University of Maryland	Maryland
Riter, Earl Francis, Jr., A.B.	Yale University, 1957	Maryland
Rosen, David, B.S.	City College of New York, 1955	Connecticut
Sarles, Richard Milford, B.S.	Georgetown University, 1957	New Jersey
Schillaci, Richard Francis, A.B.	Johns Hopkins University, 1957	Maryland
Small, Marvin Myron	Colgate University	Maryland
Sonn, Thomas Michael, B.S.	Loyola College, 1956	Maryland
Tate, Wayne Barrett	University of Maryland	Maryland
Tilley, Larry Gordon, B.S.	Roanoke College, 1957	Maryland
Urban, George Edward, Jr., A.B.	Dartmouth College, 1957	Maryland
Vann, Nina Crisman	University of Kentucky	Maryland
Vitale, Dennis E., B.S.	University of Utah, 1957	Utah
Vitek, Brantley Paul, A.B.	Western Maryland College, 1957	Maryland
Waters, Zack James, Jr., A.B.	University of N. Carolina, 1956	Maryland
Wendling, Andrew W., B.S.	Mass. Inst. of Tech., 1954	New York
M.S.	1955	
Whitlock, Leland D., Jr., B.S.	University of Maryland, 1957	Maryland
Winnacher, John Lowrie, A.B.	Williams College, 1957	Maryland
Wisotzkey, Howard M., Jr., A.B.	Dartmouth College, 1956	Maryland
Wolpert, Arthur, B.S.	Columbia University	New York
Young, Anthony John, A.B.	Loyola College, 1957	Maryland

# Summary and Geographical Distribution of Matriculants

## Summary

SEPTEMBER 15, 1961 TO JUNE 11, 1961

	<i>Male</i>	<i>Female</i>	<i>Total</i>
FOURTH YEAR CLASS . . . .	85	3	88
THIRD YEAR CLASS . . . . .	95	3	98
SECOND YEAR CLASS . . . .	85	7	92
FIRST YEAR CLASS . . . . .	94	4	98
	<hr/>	<hr/>	<hr/>
TOTAL . . . . .	359	17	376

## Geographical Distribution

California	5	North Dakota	3
Connecticut	2	Ohio	3
Delaware	1	Oregon	1
District of Columbia	3	Pennsylvania	9
Florida	2	Rhode Island	2
Idaho	2	Tennessee	1
Illinois	1	Utah	5
Indiana	1	Vermont	2
Iowa	1	Virginia	3
Maryland	279	Washington	1
Massachusetts	1	West Virginia	2
Michigan	1	Wisconsin	1
Montana	2	Wyoming	1
New Hampshire	2	<i>United States Possessions</i>	
New Jersey	11	Puerto Rico	8
New York	15	<i>Foreign</i>	
North Carolina	4	Hong Kong	1

# Intramural Postgraduate Students--1959-1960

## BASIC SCIENCES AS THEY APPLY TO THE PRACTICE OF MEDICINE

<i>Name</i>	<i>Graduate School</i>	<i>Home</i>
Ahmed, Quzi M., M.D.	Dacca Medical College	Khulna, E. Pak.
Allen, Aris T., M.D.	Howard University	Annapolis, Md.
Allen, Faye Watson, M.D.	Howard University	Annapolis, Md.
Arciago, Artmio M., M.D.	Santo Tomas Univ.	Tanay Rizal, Philippines
Baldi, Luigi, M.D.	Rome University	Rome, Italy
Botte, George, M.D.	Erlangen Univ. (Bavaria)	Smyrna, Del.
Carter, Simon Henry, M.D.	Howard University	Balto., Md.
Celik, Ahmet Hayati, M.D.	Istanbul Med. School	Polatli, Turkey
Dallas, Spyros, M.D.	Athens University	Athens, Greece
De Guzman, Benjamin A., M.D.	Santo Tomas Univ.	Manila, P.I.
De la Macorra, Fernando, M.D.	Autonoma de Mexico	Mexico City
Dorf, Herman J., M.D.	Univ. of Maryland	Balto., Md.
Fraiman, Moises Z., M.D.	San Marcos University	Lima, Peru
Frankel, Samuel Solomon, M.D.	Temple University	Balto., Md.
Galang, Miguel Trinidad, M.D.	Santo Tomas Univ.	Pampanga, P.I.
Gladue, Joseph Raymond, M.D.	Univ. of Rochester	Balto., Md.
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Herdoiza, Bolivar Julio, M.D.	Central Univ. of Quinto	Quinto, Ecuador
Hernandez, Rafael, M.D.	Santo Domingo Univ.	Santiago, D. R.
Hill, Claude David, M.D.	Meharry Med. College	Balto., Md.
Hochman, Richard I., M.D.	New York University	Annapolis, Md.
Hoyt, Irvin G., M.D.	University of Maryland	Qnstown., Md.
Hunt, Thomas Edward, Jr., M.D.	University of Maryland	Balto., Md.
Jandorf, Donald R., M.D.	University of Maryland	Balto., Md.
Juerman, Verner, M.D.	University of Tartu	Tartu, Estonia



## 92 *Postgraduate Students*

<i>Name</i>	<i>Graduate School</i>	<i>Home</i>
Kazemi, Faramarz, M.D.	<i>Tehran Med. School</i>	Tehran, Iran
Kress, Scheldon, M.D.	<i>University of Maryland</i>	Balto., Md.
Lazaro, Buenaventura M., M.D.	<i>Santo Tomas University</i>	Cabanatuan, Philippines
Linsao, Lydia Santos, M.D.	<i>Santo Tomas University</i>	Philippines
Manizade, Ali, M.D.	<i>Univ. of Istanbul</i>	Nicosia, Cyprus
Mendoza, Mario, M.D.	<i>Autonoma de Mexico</i>	Sabinas, Mexico
Middleton, Martin B., M.D.	<i>University of Maryland</i>	Balto., Md.
Ovacik, Gultekin, M.D.	<i>Univ. of Istanbul</i>	Istanbul, Turkey
Ozdemir, Refik, M.D.	<i>Univ. of Istanbul</i>	Istanbul, Turkey
Papara-Nickolson, Dora, M.D.	<i>Athens University</i>	Athens, Greece
Papathanasiou, John A., M.D.	<i>Athens University</i>	Athens, Greece
Patron, Ricardo, M.D.	<i>Far Eastern University</i>	Quezon, P.I.
Petrou, Eugenia, M.D.	<i>Salonica University</i>	Salonica, Greece
Quimper, Enrique, M.D.	<i>San Marcos Med. School</i>	Lima, Peru
Quintana, Rene, M.D.	<i>Zaragoza Med. School</i>	Mayaguez, P. R.
Rafi, Esmail, M.D.	<i>Tehran Med. School</i>	Tehran, Iran
Renner, Inge, M.D.	<i>Univ. of Hong Kong</i>	Munich, Ger.
Riego, Arturo Marinay, M.D.	<i>Far Eastern University</i>	Q.C., P.I.
Roa, Juanito C., M.D.	<i>Santo Tomas University</i>	Cebu City, P.I.
Rothmund, Hildegard, M.D.	<i>Heidelberg University</i>	Heidelberg, Germany
Scheiber, Leopold	<i>Padua Univ., Italy</i>	Budapest, Hungary
Schnitzer, Eugene J., M.D.	<i>Prague University</i>	Czechoslovakia
Silva, Hugo, M.D.	<i>San Marcos University</i>	Lima, Peru
Silverio, Leticia Anasco, M.D.	<i>Manila Central Univ.</i>	Manila, P.I.
Smith, Percival C., M.D.	<i>Howard University</i>	Balto., Md.
Tommasello, Charles, M.D.	<i>Rome University</i>	Balto., Md.
Valle, Alfonso Z., M.D.	<i>Manila Central University</i>	Quezon, P.I.
Villafior, Osias M., M.D.	<i>Santo Tomas University</i>	Negros Occ., Philippines
Vollmer, Frederick J., M.D.	<i>University of Maryland</i>	Balto., Md.
Von Schulz, Augustine P., M.D.	<i>University of Maryland</i>	Ellicott City, Maryland
White, Eric Lawrence, M.D.	<i>Howard University</i>	Jamaica, B.W.I.
Yeganeh, Mehdi L., M.D.	<i>Tehran University</i>	Kerman, Iran
Yun, Juduk, M.D.	<i>Kyungpuk University</i>	Seoul, Korea
Zekri, Habib, M.D.	<i>Shiraz Medical School</i>	Shiraz, Iran
Ziarati, Ali Hameli, M.D.	<i>Tehran University</i>	Tehran, Iran

## CLINICAL ANATOMY

<i>Name</i>	<i>Graduate School</i>	<i>Home</i>
Chen, Franklin, M.D.	University of Hongkong	Hongkong, China
Fletcher, Robert Rowland, M.D.	Univ. of Puerto Rico	Miami, Florida
Fraiman, Moises Z., M.D.	San Marcos University	Lima, Peru
Hortman, Richard Truitte, M.D.	Louisiana State Univ.	Balto., Md.
Nakazawa, Hiroshi, M.D.	University of Chiba	Takasaki, Japan
Park, Yong Choi, M.D.	Severance Union Med. College	Seoul, Korea
Sarshar, Ahmad, M.D.	University of Tehran	Tehran, Iran
Schoenhals, Charles E., M.D.	Wayne University	Balto., Md.
Sotiriou, Peter C., M.D.	Univ. of Alexandria (Egypt)	Athens, Greece
Suarez, Faustino Reynes, M.D.	Manila Central Univ.	Cebu City, P.I.
Szczypinski, Adam F., M.D.	Johns Hopkins Med. School	Balto., Md.
Vela, Christobal, M.D.	San Fernando Med. School	Lima, Peru
Yanes, Enrique Cabrera, M.D.	Havana University	Havana, Cuba

## CLINICAL CYTOLOGY

<i>Name</i>	<i>Graduate School</i>	<i>Home</i>
Baer, George K., M.D.	University of Maryland	Balto., Md.
Hudson, Clifford, M.D.	University of Pennsylvania	Fork, Maryland
Jiji, Violet, M.D.	Royal College of Medicine	Balto., Md.
Jones, Richard A., M.D.	University of Maryland	Balto., Md.
Kepas, Demetrius, M.D.	University of Athens	Athens, Greece
Noble, Allan J., M.D.	University of Toronto	Balto., Md.
Taubert, Hans D., M.D.	Munich Med. College	Munich, Ger.

## DERMATOLOGY

<i>Name</i>	<i>Graduate School</i>	<i>Home</i>
Anderson, Walter A., M.D.	University of Maryland	Balto., Md.
Cahn, Charles A., M.D.	University of Maryland	Balto., Md.
Chen, Paul, M.D.	University of China	Accokeek, Md.
Gobel, Reginald T., M.D.	Creighton University	Hanover, Pa.
Hess, Charles F., M.D.	University of Maryland	Smithsburg, Maryland
Himmelwright, G. O., M.D.	University of Maryland	Cumberland, Maryland
Kingsbury, Robert C., M.D.	University of Maryland	Seaford, Del.
Ley, Leo H., Jr., M.D.	University of Maryland	Cumberland, Maryland
Ludwig, J. S., M.D.	Hahnemann Med. College	York, Pa.
Nafzinger, M. L., M.D.	University of Maryland	Woodbridge, Virginia
Roth, Albert, M.D.	University of London, England	Riverdale, Md.
Tommasello, Charles J., M.D.	University of Rome	Halethorpe, Md.
Warren, John M., M.D.	University of Maryland	Laurel, Md.

## NEUROPATHOLOGY

<i>Name</i>	<i>Graduate School</i>	<i>Home</i>
Abbiss, Joseph W., M.D.	Univ. of Birmingham (England)	Wilmington, Delaware
Fischer, Herman, M.D.	Hahnemann Med. College	Bridgeport, W. Va.
Gemperlein, John L., M.D.	Univ. of Pittsburgh	Kittanning, Pa.
Henning, James Newton, M.D.	Univ. of British Columbia (Canada)	Camp Hill, Pa.
Kucewicz, Wm. J., M.D.	St. Louis University	Norfolk, Va.
Mendelow, Harvey, M.D.	N.Y. State Univ. Med. Center	Pittsburgh, Pa.
Norwood, Vernon H., M.D.	Johns Hopkins Univ.	Balto., Md.
Schmidt, Edward C. H., M.D.	Johns Hopkins Univ.	Easton, Md.
Tellem, Milton, M.D.	Temple University	Phila., Pa.
Torre, Anthony V., M.D.	Temple University	Roanoke, Va.
Tymkiw, Stephan, M.D.	Munich University (Germany)	Salisbury, Md.

## PULMONARY DISEASES

<i>Name</i>	<i>Graduate School</i>	<i>Home</i>
Allen, Charles J., M.D.	University of Maryland	Fort Howard, Md.
Anderson, Walter A., M.D.	University of Maryland	Balto., Md.
Blide, Richard W., M.D.	Albany Medical College	Balto., Md.
Borden, Melvin N., M.D.	University of Maryland	Balto., Md.
Gluck, Julius C., M.D.	Univ. of Brussels	Balto., Md.
Heuman, Philip W., M.D.	University of Maryland	Bel Air, Md.
Himmelwright, G. Overton, M.D.	University of Maryland	Cumberland, Md.
Lardizabel, Evaristo R., M.D.	Manila Central Univ.	Smithsburg, Md.
Ley, Leo H., Jr., M.D.	University of Maryland	Cumberland, Md.
Maggic, Gerald N., M.D.	University of Maryland	Balto., Md.
Mapp, Lionel McHenry, M.D.	McGill Univ., Montreal, Can.	Crownsville, Md.
Oursler, David A., M.D.	University of Maryland	Balto., Md.
Polat, Kayhan O., M.D.	University of Istanbul	Balto., Md.
Riego, Arturo M., M.D.	Far Eastern University	Balto., Md.
Riley, Edwin G., M.D.	Univ. of Chicago	Denton, Md.
Scalia, Samuel P., M.D.	Hahnemann Med. College	Balto., Md.

EXTRAMURAL POSTGRADUATE STUDENTS  
Course in General Practice given at Hughesville, Maryland

Andrews, James E., M.D.	Indian Head, Maryland
Bean, P. J., M.D.	Great Mills, Maryland
Berube, Leon, M.D.	Mechanicsville, Md.
Chen, Paul, M.D.	Accokeek, Maryland
Dettor, Vernon B., M.D.	La Plata, Md.

Fuchs, Robert T., M.D.  
 Gonzales, Ciro, M.D.  
 Greenwell, Charles, M.D.  
 Griffin, John H., M.D.  
 Guyther, Roy J., M.D.  
 Jett, Page C., M.D.  
 Johnson, Frederick, M.D.  
 Lane, Julian S., M.D.  
 Mossman, David L., M.D.  
 Patrick, William H., M.D.  
 Rehm, Ernest D., M.D.  
 Susan, Frank A., M.D.  
 Ward, Hugh W., M.D.  
 Woody, Arthur O., M.D.

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 Leonardtown, Md.  
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 Lexington Park, Md.  
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 Lexington Park, Md.  
 Lexington Park, Md.  
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*Architect's drawing of the new 450 bed Mercy Hospital, now under construction. The clinical material in the five wards is under the exclusive control of the Medical School of the University of Maryland.*



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—The University is the rear guard and the advance agent of society. It lives in the past, the present and the future. It is the storehouse of knowledge; it draws upon this depository to throw light upon the present; it prepares people to live and make a living in the world of today; and it should take the lead in expanding the intellectual horizons and the scientific frontiers, thus helping mankind to go forward —always toward the promise of a better tomorrow.

—From "The State and the University,"  
the inaugural address of  
President Wilson H. Elkins,  
January 20, 1955,  
College Park, Maryland.





THE  
SCHOOL of MEDICINE  
CATALOG



UNIVERSITY of MARYLAND  
1963-1964

*The provisions of this publication are not to be regarded as an irrevocable contract between the student and the University of Maryland. The University reserves the right to change any provision or requirement at any time within the student's term of residence. The University further reserves the right at any time, to ask a student to withdraw when it considers such action to be in the best interests of the University.*

# *School of Medicine*

## UNIVERSITY OF MARYLAND

### Calendar

#### 1963

SEPTEMBER	9	Monday—Orientation exercises for 1st year students.
SEPTEMBER	10	Tuesday—Orientation exercises for 1st year students. Registration for 1st and 3rd year students. Orientation exercises for 3rd year students in AFTERNOON.
SEPTEMBER	11	Wednesday—Orientation exercises for 1st year students. Registration 2nd and 4th year students. Orientation exercises for 3rd year students in MORNING.
SEPTEMBER	12	Thursday—Instruction begins for all classes.
NOVEMBER	27	Wednesday—Thanksgiving recess begins at 5 P.M.
DECEMBER	2	Monday—Instruction resumed for all classes.
DECEMBER	21	Saturday—Christmas recess begins at 5 P.M.

#### 1964

JANUARY	2	Thursday—Instruction resumed for all classes.
JANUARY	30	Thursday—Registration for 2nd semester.
JANUARY	31	Friday—Registration for 2nd semester.
FEBRUARY	1	Saturday—First semester ends at 5 P.M.
FEBRUARY	3	Monday—Second Semester begins for all classes.
FEBRUARY	22	Saturday—Holiday—Washington's Birthday.
MARCH	26	Thursday—Easter recess begins at 5 P.M.
MARCH	31	Tuesday—Instruction resumed for all classes.
MAY	29	Friday—1st, 2nd and 4th year classes cease at 5 P.M.
MAY	30	Saturday—Holiday—Memorial Day.
JUNE	1	Monday—Examinations for 1st and 2nd years.
JUNE	2	Tuesday—Examinations for 1st and 2nd years.
JUNE	2	Tuesday—3rd year classes cease at 5 P.M.
JUNE	3	Wednesday—Examination for 1st and 2nd years.
JUNE	5	Friday—Pre-commencement Exercises—Baltimore Campus.
JUNE	6	Saturday—Commencement Exercises—College Park Campus.

#### EXAMINATIONS

Dates for National Board, Part I and II will be posted for 2nd and 4th year students.

Dates for Maryland State Board examination will be posted for 4th year students.

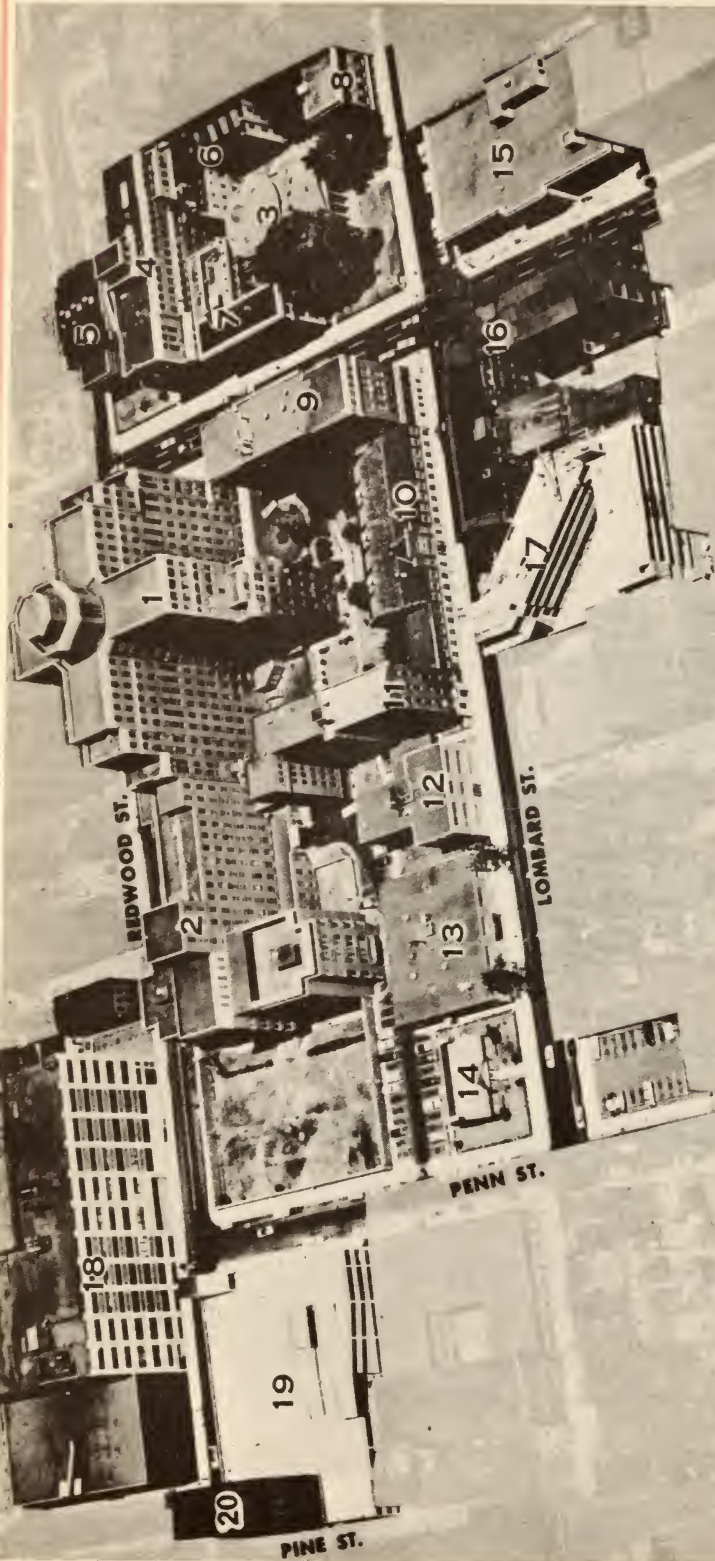
## 1964

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27	28	29	30				25	26	27	28	29	30	31	29	30									27	28	29	30	31		

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## BALTIMORE CAMPUS UNIVERSITY OF MARYLAND

- |                                    |  |
|------------------------------------|--|
| 1. University Hospital—UH          | 10. Dental Clinic—DC                       |
| 2. The Psychiatric Institute—PI    | 11. Nurses' Residence (Parsons Hall)—PH    |
| 3. Davidge Hall—DVH                | 12. School of Nursing (Whitehurst Hall)—WH |
| 4. Bressler Research Building—BRB  | 13. School of Pharmacy (Dunning Hall)—DH   |
| 5. Law Building—LB                 | 14. Kelly Memorial—KM                      |
| 6. Gray Laboratory—GL              | 15. Health Sciences Library—HSL            |
| 7. Medical Technology Building—MTB | 16. Outpatient Department—OPD              |
| 8. Administration Building—AB      | 17. The Baltimore Union—BU                 |
| 9. Dentistry-Pharmacy Building—DPB | 18. John Eager Howard Hall                 |
|                                    | 19. Parking Garage                         |

# Requirements For Admission

## *Policy on Admissions*

Academic achievement, medical aptitude test scores, recommendations from college instructors or premedical committee, and personal interview are all carefully considered in evaluating an applicant. A student may be denied admission because of unsatisfactory reports in any one of these areas. Academic achievement alone does not automatically insure acceptance as the Committee is equally concerned with personality, aptitude, character, integrity, motivation, and assessment of the individual as a potential physician. Letters of recommendation are requested from at least two science instructors and one non-science instructor. Candidates will be expected to complete all required basic premedical subjects before July 1 of the year they are planning to enter.

Matriculants are required to accept the provisions of the Honor Code and to agree to assume its obligations prior to registration. A copy of the Honor Code and agreement form is sent to each candidate with notice of acceptance.

Preference will be given to Maryland residents but well qualified applicants from other areas in the United States or Canada will be considered. Applicants from foreign schools must complete at least two years of premedical work in an approved college or university in the United States or Canada.

## *Definition of Resident and Non-Resident*

Students who are minors are considered to be resident students if, at the time of their registration, their parents have been domiciled in this State for at least six months.

The status of the residence of a student is determined at the time of his first registration in the University, and may not thereafter be changed by him unless, in the case of a minor, his parents move to and become legal residents of the State by maintaining such residence for at least six months.

However, the right of the minor to change from a non-resident to resident status must be established by him prior to the registration period for any semester.

Adult students are considered to be residents if, at the time of their registration, they have been domiciled in Maryland for at least six months provided such residence has not been acquired while attending any school or college in Maryland or elsewhere. Time spent on active duty in the Armed Forces while stationed in Maryland will not be con-

sidered as satisfying the six month period referred to above, except in those cases in which the adult was domiciled in Maryland for at least one year prior to his entrance into the Armed Services and was not enrolled in any school during that period.

The word domicile as used in this regulation shall mean the permanent place of abode. For the purpose of this rule only one domicile may be maintained.

### *Requirements for Admission to First Year Class*

Careful attention should be given to the selection of elective courses particularly in the natural sciences. Except under unusual circumstances the student should plan a four year curriculum with a suitable Arts and Science major, leading to a bachelor's degree. A major in an area other than science is quite acceptable although it is not intended to divert students from a science major if this is their field of choice. The student taking science courses beyond the minimal requirements is encouraged to take such subjects as embryology, comparative anatomy, psychology, anthropology, physical chemistry, or cellular physiology. Courses duplicating medical school work, such as histology, neurology, biochemistry, mammalian physiology, human anatomy, bacteriology, are not recommended unless they are required in the student's major sequence. Having credit in such courses will not excuse students from taking them in medical school. In the non-science area, courses in English, philosophy, sociology, economics, history, and government and politics are recommended.

A minimum of 90 semester hours (three academic years) of acceptable college credit are required exclusive of physical education and military science, earned in colleges of arts and sciences whose names occur on the current list of "Accredited Institutions of Higher Education" as compiled by the National Committee of Regional Accrediting Agencies of the United States. Applicants who will have earned a bachelor's degree in arts and sciences before registration for medical school from an approved college or university will be given preference over applicants who have not completed the requirements for the bachelor's degree. Only those courses will be acceptable which are approved for credit towards an A.B. or B.S. degree by the university or college attended as well as the University of Maryland.

The following college courses and credits at an acceptable level are required before registering for Medical School.

	<i>Semester</i>	<i>Hours</i>	<i>Quarter</i>	<i>Hours</i>
General biology or zoology	*(6)	8	*(9)	12
Inorganic chemistry	*(6)	8	*(9)	12
Organic chemistry	....	6	....	9
Quantitative or physical chemistry	....	3	....	5
General physics	*(6)	8	*(9)	12
English	....	12	....	18
Foreign language	....	6	....	9

\* Consideration will be given applicants from the New England area where 6 semester hours, or 9 quarter hours, is the standard credit for a science course.



No more than 60 hours will be accepted from accredited Junior Colleges and then only if these credits are validated by a college offering a Bachelor of Arts or Science Degree.

Medical College Admission Tests should be taken in May and must be taken no later than October of the year preceding the year of entrance. Applicants should write the Psychological Testing Corporation, 304 East 45th Street, New York 17, New York for further information and for registration forms.

### *Requirements for Admission to Advanced Standing*

Students who have attended approved medical schools are eligible to file applications for admission to the second and third year classes only. These applicants must meet the current first year entrance requirements in addition to presenting acceptable medical school credentials, and a medical school record based on courses which are equivalent to similar courses in this school.

No student will be considered who has been dismissed from any medical school unless his former Dean submits a letter addressed to The Committee on Admissions stating the student is reinstated in good standing and eligible for promotion.

No student will be considered who is not eligible for promotion at time of transfer.

Applicants for admission to third year class are required to complete satisfactorily the National Board Examination, Part I, before registration.

Persons who already hold the degree of Doctor of Medicine will not be admitted to the Medical School as a candidate for that degree from this University.

No applicants from foreign medical schools will be considered for advanced standing.

Applications for admission to advanced standing is made in accordance with instructions accompanying the application form.

### *Method of Making Application*

Requests for application forms should be sent to The Committee on Admissions, School of Medicine, 522 West Lombard Street, Baltimore 1, Maryland.

Application for admission to the first year class in September should be filed between July 1 of the preceding year and January 15 of the year of admission.

Candidates for admission who live in or expect to practice Medicine in Pennsylvania or New Jersey should apply to their respective State Boards of Education for Medical Student Qualifying Certificates.

# Instruction Leading To Degree of Doctor of Medicine

## *Organization of Curriculum*

The curriculum is organized to permit students to acquire fundamental knowledge of the principles of medicine, establish habits of applying critical evaluation and judgment to problems of health and disease, and develop ethical principles which inspire trust in their patients and respect of the community.

Instruction encompasses four academic years. The first and second years are largely devoted to a study of the medical basic sciences. Introductory instruction in clinical areas is given in the second year. Instruction in the third and fourth years is principally of the preceptor type centered about the patient. Small student groups permit close personal relationships. Student research is encouraged during the summer recess and during the limited elective time permitted in the schedule. In most courses the final examination as the sole test of achievement has disappeared, and the student's final grade is determined by frequent examinations, recitations, conferences, and assigned work carried on throughout the course.

## *General Faculty Rules*

The University authorities reserve the right to make changes in the curriculum, the requirements for advancement and graduation, fees, and in rules and regulations whenever expedient.

The School of Medicine does not accept responsibility for students' personal property.

Students who report for classes later than one week after scheduled time will be permitted to begin work only by permission of the Dean.

Attendance at all scheduled classes is expected.

Notice of change of address should be submitted promptly to the Dean's office and to the Registrar's Office.



*Grading System*

Official grades are designated by these symbols:

<i>Symbol</i>	
3	Upper third of class
2	Middle third of class
1	Lower third of class
P	Satisfactory completion of course
F	Failure
I	Incomplete
C	Condition

Students will receive a grade for the various disciplines in the manner outlined below:

Anatomy	}	3, 2, 1, F, I, C
Biochemistry		
Physiology		
Microbiology		
Pharmacology		
Pathology		
Psychiatry		
Surgery		
Medicine		
Pediatrics		
Ob-Gyn		
Radiology	}	P, F, I, C
Ophthalmology		
Anesthesiology		
Preventive Medicine		

*Advancement and Graduation*

At the end of each academic year the Advancement Committee convenes to review the records of all students in each class. The estimate of a student's standing is based on academic achievement, his moral and ethical traits, and general evaluation of his fitness for a career in medicine. The committee recommends appropriate action to the Faculty Board.

1. All students will be required to take the comprehensive National Board Examinations, Part I and II, and they will be expected to pass the examinations to be advanced from the second to the third year or to graduate respectively.

2. Students in all courses in which National Board Examinations are given will be rated "Q" (Qualifying), "C" (Condition) or "F" (Failure). Only those students having "Q's" in the first year courses and no "F's" in the second year courses will be eligible to take National Board Examination, Part I. Only those students who have passed Part I, received all "Q's" in the third year courses and no "F's" in the fourth year courses, will be eligible to take the National Board Examination, Part II.

## 10 State Board Examinations, Graduation

3. Students with "C's" in the second and fourth year courses may, at the discretion of the department head, remove the "C" by re-examination or by passing the National Board Examination in the subject in which they are deficient.

4. Students with a "C" in any first or third year course must remove the "C" by re-examination before being eligible for promotion to the second or fourth year.

5. Final grades will be assigned in those courses for which National Board Examination are given only when the National Board Examinations are passed and will be 3, 2, 1.

6. Students who fail the National Board Examinations by National Board standards will receive a "C" in those subjects in which the score is lower than 75.

7. A rating of "C" obtained as a result of failing the National Board Examination must be removed prior to advancement from one year to the next or graduation by re-examination in the conditioned subject.

8. No student will be advanced on probation.

9. Students who fail re-examinations will be given an "F" and any student receiving more than one "F" in a major course in any one year will be dismissed from the school.

Students with one failure or one failure plus one or more conditions, at the discretion of the Advancement Committee, may be allowed to remove the "F" by repetition of the course, the semester, the entire year at Maryland or the course at any school satisfactory to the department head, or *may be dismissed*.

Students who repeat a year and do not satisfactorily pass all courses with a better than minimum rating may, at the discretion of the Advancement Committee, be dismissed.

10. When circumstances beyond the student's control make it impossible for him to complete a course at the usual time, he will be given an Incomplete (I) until such time as he has completed the course. An "I" is in no way prejudicial to the final rating or grade of the student in the course, but must be removed prior to promotion to the next year.

11. The faculty reserves the right to determine if a student may withdraw, repeat, advance, or graduate on moral and personal grounds including traits of character.

12. All discretionary actions of the Advancement Committee are subject to ratification by the Faculty Board and must be presented to them at their next meeting.

### *Certification for State Board Examinations*

Students at the end of their second and fourth years will be certified to State Board examiners if they have successfully completed the prescribed course of instruction.

### *Attendance at Graduation*

All students are required to attend graduation. Permission to receive the degree *in absentia* must be obtained in advance from the Dean.

# Additional Educational Programs

## *Baccalaureate Degree*

Selected students entering the School of Medicine from colleges which usually grant a baccalaureate degree after the successful completion of the first year of medicine, are responsible for: a) Providing a certificate from his college or university that he is eligible for this degree, and b), Meeting all requirements of the School of Medicine for advancement to the second year.

## *Graduate Program*

Graduate courses and research opportunities leading to advanced degrees are available in most of the basic science departments of the School of Medicine. Students pursuing graduate work must register in the Graduate School of the University of Maryland and meet the same requirements as other graduate students. Detailed information concerning fees, scholarships, and other material of general nature, may be found in the University publication titled *An Adventure in Learning*. This may be obtained from the Office of University Relations, North Administration Building, University of Maryland, College Park, Maryland.

## *Combined Doctor of Philosophy— Doctor of Medicine Program*

Properly qualified medical students may elect to enter the combined educational program leading to Doctor of Medicine and a graduate degree. Such students may arrange a leave of absence of up to three years at the end of their second or third year in medical school to become candidates for either M.S. or Ph.D. in one of the basic medical sciences. Before entering the combined program, students must meet the requirements for admission to the Graduate School and be acceptable to the department of their choice as a candidate for an advanced degree.

## *Internships and Residencies*

University Hospital has twenty-three graduate specialty training programs for interns and residents approved by the Council of Medical Education and Hospitals. In the Department of Medicine there are

## 12 *Fellowships*

residency programs in dermatology, internal medicine, and neurology. The residency programs in the Department of Surgery include general surgery, neurosurgery, orthopedic surgery, thoracic surgery, otolaryngology, and urology. The Department of Pediatrics offers resident training programs in pediatrics and pediatric allergy. In addition, resident training is provided in anesthesiology, obstetrics-gynecology, pathology, psychiatry, and radiology. In total, there are approximately 180 approved resident positions in University Hospital.

Intern programs at the University Hospital include the rotating internship; straight internships in medicine, pathology, pediatrics, and surgery; and the mixed medical internships. University Hospital participates in the National Intern Matching Program, and there are presently 38 approved intern positions.

Appointments to intern and resident positions are made by the Director of the hospital upon the recommendation of the Intern and Resident Committee of the Medical Board or, in the case of residents, upon the recommendation of the appropriate Clinical Department Head. Correspondence and applications should be addressed to

THE DIRECTOR  
University Hospital  
Baltimore 1, Maryland

### *Fellowships*

Opportunities for research and special training in the form of fellowships are available in the various departments of the School of Medicine. A number of summer fellowships for medical students provide opportunities for work in a variety of disciplines. Inquiries may be directed to the head of the department or division in which service is desired.

# Tuition, Fees and Registration

## Current Fees

Application Fee .....	\$ 7.50
Matriculation Fee (New Students) .....	10.00
Tuition—Resident of Maryland .....	650.00
Tuition—Non-Residents .....	800.00
Laboratory Fee .....	25.00
Student Activities Fee .....	23.50
Student Health Fee .....	10.00
*Student Union Fee .....	30.00
**Special Fee .....	10.00
National Board Examination Fee (2nd and 4th year students) .....	10.00
***Hospital Insurance (Blue Cross—Individual Plan) .....	45.80
—Family Plan) .....	102.00

The application fee should be submitted with the formal application to medical school. A matriculation fee of \$10 and a deposit on tuition of \$50 is required of all applicants before the expiration date specified in the offer of acceptance. The deposit on tuition will be credited against first semester charges. In the event of withdrawal before registration the matriculation fee will be retained by the school of medicine and the advance deposit will be returned on request.

## Registration

For the fall semester, all students, after proper certification, are requested to complete a set of registration cards to be obtained from the Registrar's Office. All students are expected to complete their registration, including the payment of bills on the registration days. Those who do not complete their registration on the prescribed days will be charged a fee of \$10.00.

\* The Student Union Fee is payable by all students enrolled in the Professional Schools on the Baltimore Campus and is used to pay interest on and amortize the cost of construction of the Union Building.

\*\* The Special Fee is payable by all full-time students enrolled in the Professional Schools on the Baltimore Campus and is used to finance equipment for the Union Building.

\*\*\* Membership of the student in Blue Cross or any other acceptable hospital insurance is required. Each student must produce certified proof of such membership at the time of registration.



## 14 *Fees, Funds & Refunds*

One-half of the tuition fee and all of the following—the laboratory fee, the student health fee, the student union fee, the National Board Examination fee, the special fee, and the student activities fee are payable on the date specified for registration for the first semester. Blue Cross Hospitalization for six months in advance is paid at the beginning of each semester.

The remainder of the tuition fee shall be paid on the date designated for the payment of fees for the second semester. Fourth year students shall pay the graduation fee, in addition, at this time.

### *Non-Payment of Fees*

If semester fees are not paid in full on the specified registration dates, a penalty of \$10.00 will be added.

If a satisfactory settlement or an agreement for settlement is not made with the business office within ten days after a payment is due, the student automatically is debarred from attendance at classes and will forfeit the other privileges of the School of Medicine.

### *Re-Examination Fee*

A student who is eligible for re-examinations must secure a bill in the amount of \$5.00 from the Registrar's Office and make payment to the Cashier for each subject in which he is to be examined, and he must present the receipt to the faculty member giving the examination before he will be permitted to take the examination.

### *Student Activities Fund*

This fund supports all student activities and is budgeted by the Student Council in accordance with its own by-laws. All expenditures from this fund must be approved by the Student Council. The fund supports the student recreational and social program, representation at national conventions for certain student organizations, the cost of membership in the National Internship Association as well as other activities. A portion of the fund is allocated to the yearbook and provides each medical student with a copy of this publication. On registration all students are given a copy of *The Student Handbook* containing The Honor Code and The By-Laws of the Honor Council together with the By-Laws of the Student Council and the Professional School Student Senate.

### *Withdrawals and Refunds*

Students desiring to leave the School of Medicine at any time during the academic year are required to file with the Dean a letter of resignation. The student must satisfy the authorities that he has no outstanding obligations to the school and must return his Student Identity Card and Matriculation Card.

If these procedures are not completed, the student will not be entitled to honorable dismissal nor to refund of fees.

Students under 21 years of age must supplement the procedures previously described with the written consent of their parents or guardians.

## ACADEMIC STANDING ON WITHDRAWAL

Students who voluntarily withdraw during an academic semester will be given no credit.

Students are not permitted to resort to withdrawal in order to preclude current or impending failures. Their standing on withdrawal will be recorded in the Registrar's Office.

Students who withdraw from the School of Medicine, and later desire readmission, must apply to the Committee on Admissions, unless other arrangements have been consummated with the Dean's written consent.

## REFUNDS ON WITHDRAWAL

Students who are eligible to honorable dismissal will receive a refund of current charges, after the matriculation fee has been deducted, according to the following schedule:

PERIODS ELAPSED AFTER INSTRUCTION BEGINS	PERCENTAGE REFUNDABLE
Two weeks or less.....	80%
Between two and three weeks.....	60%
Between three and four weeks.....	40%
Between four and five weeks.....	20%
After five weeks.....	0

## LEAVE OF ABSENCE

Students who are in good standing may be granted one year's leave of absence on request to the Dean. Longer leaves can be arranged only under special circumstances except those students in the combined M.D.-Ph.D. program.

## Required Equipment

At the beginning of the first year, all freshmen must possess a complete set of dissecting instruments similar to the one on display in the bookstore. In addition, they must provide themselves with microscopes equipped with a mechanical stage and a substage lamp. Microscopes must meet the standards described below.

A standard monocular or binocular microscope made by Bausch & Lomb, Leitz, Zeiss, Reichert or American Optical Company fitted with the following attachments, meets the requirements:

16 mm., 10x, 0.25 N.A.—4.9 mm. working distance.

4 mm., 43x, 0.65 N.A.—0.6 mm. working distance.

1.8 mm., 97x, oil immersion, 1.25 N.A.—0.13 mm. working distance.

Oculars: 10x and 5x. Huygenian eyepieces.

A scanning objective is optional, but often proves to be of great value.

The microscope should also be equipped with a wide aperture stage with detachable ungraduated mechanical stage, a substage condenser, variable focusing type 1.25 N.A. with iris diaphragm (a rack and pinion focusing device is preferred), and a mirror which is plane on one side, and concave on the other. A carrying case is recommended.

Students are cautioned with respect to the purchase of used or odd-lot microscopes since some older instruments are in poor optical or mechanical condition, and in addition to which some were equipped with a 4 mm. (high dry) objective whose N.A. is marked as 0.85. This objective has such a short working distance (0.3 mm.) that it is difficult or impossible to focus through thick cover glasses or the standard hemocytometer cover glass without breakage. All microscopes (new and used) are subject to inspection and approval by Dr. Theodore F. Leveque and Dr. Andrew G. Smith, Room 209, Bressler Building, 29 South Greene Street. Such approval must be obtained, at the latest, two days before school opens.

Prior to beginning the second semester of the first year, each student should obtain a stethoscope, sphygmomanometer, and ophthalmoscope-otoscope. The Department of Physiology and the Division of Physical Diagnosis offer the following recommendations:

INSTRUMENT	RECOMMENDED TYPE	COMMENT
Stethoscope	Reiger-Bowles or Sprague-Bowles	Purchase thick-walled rubber tubing. The wall thickness and internal diameter should be $\frac{1}{8}$ inch each. Consult with Faculty Member before purchasing a more expensive stethoscope.
Sphygmomanometer	Tycos-aneroid	Other types are also satisfactory but this has proved itself for all around reliability and durability.
Ophthalmoscope- otoscope	Welch-Allyn	With closed No. 201 (diagnostic) otoscope head and No. 106 May ophthalmoscope head (not deluxe). Medium handle No. 705.

In addition to the dissecting kit each student will require 1 or 2 five and one-half inch curved Kelley clamps for use in the Physiology Laboratory.

The following equipment, which is frequently sold in a packaged kit with the above instruments, will be needed for second year work in Physical Diagnosis.

Tuning fork	250 cycles per second	The large aluminum alloy type is preferred to the small stainless steel variety.
Reflex hammer	any simple type	Avoid specialized instruments with built in pins, brushes, etc.

Students in the second year class are also expected to provide themselves with short white lapel coats. Three button, 8 ounce sanforized duck coats are satisfactory.

# Prizes, Scholarships, Fellowships and Loan Funds

If an applicant is awarded a scholarship it is understood that during its tenure he will accept no appointment in a hospital unless it has an approved graduate educational program.

## Prizes

### THE FACULTY PRIZE

The faculty will award the Faculty Gold Medal and Certificate and five Certificates of Honor to the six highest ranking candidates for graduation who, during the four academic years, have exhibited outstanding qualifications for the practice of medicine.

### THE BALDER SCHOLARSHIP AWARD

Each year a prize of \$500 will be awarded for outstanding academic achievement to a graduating senior.

### THE PRIZE IN INTERNAL MEDICINE

Each year a prize of \$600 will be awarded through the generosity of an anonymous donor in honor of Dr. Theodore E. Woodward to a graduating senior for excellence in Internal Medicine.

### THE DR. A. BRADLEY GAITHER MEMORIAL PRIZE

A prize of \$25.00 is given each year by Mrs. A. Bradley Gaither as a memorial to the late DR. A. BRADLEY GAITHER, to the student in the fourth year class doing the best work in genito-urinary surgery.

### THE DR. LEONARD M. HUMMEL MEMORIAL AWARD

A gold medal and certificate of proficiency will be awarded annually as a memorial to the late DR. LEONARD H. HUMMEL, to the graduate selected by the Executive Committee of the faculty who has manifested outstanding qualifications in internal medicine.

### THE DR. HARRY M. ROBINSON, SR. PRIZE

A prize of \$25.00 is given each year in honor of DR. HARRY M. ROBINSON, SR., *Professor Emeritus of Dermatology*, to the member of the fourth year class selected by the faculty who has done outstanding work in dermatology.



## THE DR. WAYNE W. BABCOCK PRIZE

Each year a prize of \$50 will be awarded to a graduating senior for outstanding work in surgery as a memorial to Dr. Wayne W. Babcock.

*Scholarships*

A number of scholarships are available to members of the three upper classes with stipends ranging from \$100 to \$650 a year with the average about \$250. Specific information on any of these is available on inquiry to Room 102, Davidge Hall. All scholarships are awarded for one academic year and will be renewed only on application. Applications may be obtained in Room 102, Davidge Hall and should be returned before the end of the school year. They will be acted upon by the Faculty Committee on Scholarships and Loans shortly thereafter and the applicants notified of the decision as promptly as possible. Awards are made on a competitive basis and academic proficiency is the primary consideration. Students who do not qualify for scholarships may apply for a student loan.

*Warfield Freshman Merit Scholarships*

Scholarships with a stipend of \$650 are available to members of the first year class who are residents of Maryland and who have demonstrated outstanding potentiality for the study of medicine. Selection will be based on the applicant's college record, MCAT scores, and any other criteria available to the Committee, including their impression of the applicant at the time he was interviewed in connection with his application for admission to Medical School. The Committee reserves the right to withhold Scholarship awards if, in their opinion, there are no qualified applicants in the particular year under consideration. Individuals meeting the residency requirements may apply by writing to the Committee on Admissions after they receive an offer of a place in the incoming class, requesting that their name be given consideration. These scholarships are available to first year students only, and therefore are not renewable. Recipients may apply in later years for Medical School Scholarships open to upper classmen.

*Avalon Scholarship*

An Avalon Scholarship which will pay full tuition will be awarded to the member of the incoming freshman class who shows the greatest promise for a successful career in medicine. All accepted students are eligible to apply whether resident or non-resident. At the end of each academic year the recipient's record will be reviewed by the Committee on Scholarships and the scholarship extended for another year if the record warrants. Any recipient who does not stand at least in the upper third of the class will not be considered eligible for renewal.

If an applicant is awarded an Avalon Scholarship, it is understood that during its tenure he will accept no outside remunerative employment during the school year.

## 20 Scholarships, Fellowships, & Loan Funds

### *The McCormick Scholarship*

Through the generosity of the McCormick Company, a scholarship, providing a stipend of \$1200 per year, is available to a student of the first or second year of Medical School. These scholarships will be awarded by the Committee on Scholarships and Loans, taking into consideration the need of the applicant and his scholarly attainments.

Traits of character, motivation, and potentiality as a physician will be considered by the Committee in making an award. All McCormick scholars must agree to accept no outside employment of any kind during its tenure. The scholarship is renewable at the discretion of the Committee providing the holder stands in the upper third of his class at the time of application.

### *The Dr. John B. Weaver Fellowships*

The will of Dr. John B. Weaver, who died in 1929, authorized The Trustees of the Endowment Fund of the University of Maryland to establish fellowships in his name. Two such fellowships, each in the amount of \$1500.00, will be awarded annually to applicants who as physicians are full time fellows in research or teaching in the University of Maryland School of Medicine.

### *Summer Research Fellowships*

A number of summer research fellowships are available upon application to the Committee on Scholarships and Loans.

### *Loan Funds*

A number of loan funds are available to students who are in financial need and application may be made at any time, although most applications are made and considered shortly before the beginning of each semester. Except in unusual circumstances, loans from Medical School Funds are limited to \$400 a year. Loans are awarded on the basis of need and therefore a budget must be submitted with each application, along with the other supporting data. Most loans are repayable with interest at 2% in partial installments of 20% each, beginning two years after graduation. Interest with principal of the loan as repaid will be used as a rotating loan fund. Application forms for all loans are available in Room 102, Davidge Hall and should be presented to Committee on Scholarships and Loans.

#### NATIONAL DEFENSE EDUCATION LOAN

The National Defense Education Act of 1958 provides funds for students' loans. A student may borrow in one year a sum not exceeding \$1000 and during his entire course of study may borrow a sum not exceeding \$5000. The borrower must sign a note for the loan and agree to interest and repayment terms established by the University. Repayment of the loan begins one year after the borrower ceases to be a full time student and must be completed within ten years thereafter. No interest is charged on the loan until the beginning of the repayment schedule. Interest after that date is to be paid at the rate of 3% per annum.

The National Defense Education Act contains a provision which provides that up to 50% of a student loan plus interest may be cancelled in the event the borrower becomes a full time elementary or secondary school teacher. Such cancellation is to be at the rate of 10% a year up to 5 years.

#### AMERICAN MEDICAL ASSOCIATION LOANS

The American Medical Association will guarantee loans up to \$1500 per year to medical students with interest at 1% above the Chicago prime rate. Loans mature on first day of fifth month after completing training including internship and residency. Interest rate after maturity will be 7% per annum. Application forms and further information are available in Room 102, Davidge Hall.

#### STUDENT COUNCIL EMERGENCY LOAN FUND

The Student Council of the Medical School has established an emergency loan fund for all medical students. When funds are available loans are without interest, are limited to \$400, and must be repaid in 120 days.

# General Information

## *Student Organizations*

### STUDENT ACTIVITIES COMMITTEE

This committee serves to coordinate and integrate the activities of all student groups and to act as liaison between the student body and the faculty. Student members are: President of the Student Council, Class Presidents, Chairman of the Honor Council, President of the Student American Medical Association, President of the Interfraternity Council, President of Alpha Omega Alpha, President of the Woman's Auxiliary to Student American Medical Association, Editor of the Yearbook, Editor of the *S A M A Newsletter*, Chairman of the Orientation Committee. The Associate Dean for Student Affairs serves as Chairman and faculty members are appointed by the Dean.

### STUDENT COUNCIL

Each year the student body elects the Student Council which formulates and directs policies and activities of the student body and makes appropriate recommendations to the proper authorities. It is responsible for disbursement of the Student Activities Fund and arranges the social program for the year.

### HONOR COUNCIL

The Honor Council is responsible for interpretation and execution of the Honor Code. Acceptance of the provisions and obligation of this code is required of all students entering the medical school.

### PROFESSIONAL SCHOOL SENATE

The Professional Schools on the Baltimore Campus, including the Schools of Medicine, Law, Dentistry, Nursing, and Pharmacology formed a Professional School Senate in 1956, a representative body for the purpose of considering problems concerning these schools and presenting their recommendations to the proper University authorities. The Professional School Senate operates under its own By-Laws.

### STUDENT AMERICAN MEDICAL ASSOCIATION

The Student American Medical Association has a Chapter at Maryland and all medical students are eligible to join. This organization is



designed to prepare the future physician for full participation in organized medicine. The *S A M A Newsletter* is a monthly publication which covers medical school news and the latest developments in areas of vital concern to medical students.

#### WOMAN'S AUXILIARY, STUDENT AMERICAN MEDICAL ASSOCIATION

It was organized to help wives of medical students to prepare themselves to fulfill future responsibilities as wives of practicing physicians. It has promoted closer association among the wives and the auxiliary actively participates in many functions for the betterment of the medical school.

#### STUDENT COUNCIL INTRAMURAL ATHLETIC PROGRAM

Each year the Student Council sponsors an intramural athletic program which is designed to provide for the student a physical outlet from the stresses of constant study. The program consists of inter-class competition in tag football, basketball, softball, and tennis.

#### THE INTERFRATERNITY COUNCIL

Its purpose is to further the interests and improve the coordination and cooperation of the member groups. Each fraternity is represented by its president and social chairman. One of these representatives is chosen President for the school year on a rotating basis.

The Interfraternity Council organizes the Freshman Orientation Program, operates a used book and microscope store, and sponsors a yearly lectureship. The Interfraternity Council is represented on the Student Activities Committee.

#### THE YEARBOOK

This is the annual joint publication of the Schools of Medicine and Nursing. The yearbook, *Terra Mariae Medicus*, covers all the facets of student activities and is compiled by the students. As *Bones, Molars and Briefs*, the yearbook provides a continuous record of graduating classes as far back as 1896. It is the outstanding record of student life. The cost of the yearbook is included in the Student Activities Fee and all medical students are entitled to receive a copy without further charge.

#### *Alpha Omega Alpha—National Medical Society*

The Beta Chapter of Maryland was established at the University of Maryland in 1949. Medical students possessing outstanding qualities of moral integrity, scholarship, and leadership are elected to membership in their third or fourth years. The society sponsors an annual lectureship and forum for presentation of medical student research.

#### *Student Health Service*

JAMES R. KARNS, M.D. . . . . . *Director, Student Health Service*

The Medical School has made provision for the systemic care of undergraduate medical students according to the following plan:



## 24 *General Information*

### PRELIMINARY EXAMINATION

All new students will be examined during the first week of the semester. Notice of the date, time, and place of the examination will be announced to the classes and posted on the bulletin board. The passing of this physical examination is necessary before final acceptance of any student.

### MEDICAL ATTENTION

Students in need of medical attention will be seen by the Director, Dr. James R. Karns, in his office on the second floor, Outpatient Department at 12 m. daily, except Saturday and Sunday. In case of necessity, students will be seen at their homes.

### HOSPITALIZATION

All students are required to have Blue Cross hospitalization insurance, or its equivalent.

### PHYSICAL DEFECTS

Prospective students are advised to have any known physical defects corrected before entering school in order to prevent loss of time which later correction might incur.

### LIMITATIONS

It is not the function of this service to treat chronic conditions contracted by the students before admission, nor to extend treatment of acute conditions arising in the period between academic years, unless the school physician recommends this service.

## *Housing*

A limited number of women students may obtain housing accommodations in the Louisa Parsons Hall, 622 West Lombard Street. It offers comfortable living accommodations and it is under the general supervision of the Dean of Women.

Bed linens, towels, pillows, blankets, and curtains are provided as part of the general furnishings of the room. Students are requested to bring their own bedspreads, an extra blanket, bureau scarves, small rugs, and a laundry bag. The individual student assumes responsibility for all dormitory property assigned to her. Any damage done to property other than that which results from ordinary wear and tear will be charged to the student concerned. Meals may be purchased at University cafeterias or in nearby restaurants.

### GENERAL INFORMATION FOR THE BALTIMORE UNION BUILDING

The Baltimore Union Building for students of the Professional Schools is located adjacent to the Professional Schools at 621 West Lombard Street. Accommodations for 195 men are provided in a five-story, semi-air conditioned building which also contains a cafeteria, fountain lounge, meeting rooms, laundry facilities, game room, book store, barber shop, and lounges on each floor. Double rooms are available. The rental agreement is made for rooms only; meals are served cafe-



*A common meeting place for students is the new Baltimore Union Building at 621 West Lombard Street. The new six story building, dedicated April 21, 1961, cost \$1.5 million. Future plans call for doubling its size.*

## 26 *General Information*

teria style on a cash basis. The contract for accommodations covers the academic year. The rates are:

\$150.00 per semester per double room.

80.00 per eight weeks summer session per double room.

The rate shown above is per person and includes the following: Room furnishings, bed and cover, mattress, chest of drawers, closet, book shelves, desk, medicine cabinet, desk chair, and desk lamp. Maid service will include cleaning of room twice per week and replacement of change of linen once each week. Telephone service is available through the Chesapeake & Potomac Telephone Company. Cost of the telephone is not included in the room rate. Information can be obtained from the Director's Office. Mail service is also provided. The student provides blankets, towels, pillow, and linens. Towels and linens must be rented through the designated Commercial Rental Service. A small amount of luggage space is available. Storage of anything other than luggage will not be available.

### HOW TO APPLY FOR A ROOM ASSIGNMENT

Write: DIRECTOR'S OFFICE  
The Baltimore Union Building  
621 West Lombard Street  
Baltimore 1, Maryland

# Buildings and Facilities

## *Davidge Hall*

This hall, at 522 West Lombard street is named after the first dean, Dr. John Beale Davidge, and was the first building of the medical school to be erected. It was completed in 1812 and is a replica of the Pantheon in Rome. It is the oldest structure in this country from which the degree of Doctor of Medicine has been granted annually since its erection. It is located at the N.E. corner of Lombard and Greene Streets and houses the offices of the Dean, Associate Deans, the Committee on Admissions, the Postgraduate Committee, Medical Alumni Office, in addition to Chemical and Anatomical Halls.

## *Administration Building*

520 West Lombard Street contains the Baltimore offices of the Registrar and two lecture halls.

## *Bressler Research Laboratory*

The Frank C. Bressler Research Laboratory at 29 S. Greene Street, a memorial to a generous alumnus, was completed in 1940.

It houses the Department of Anatomy in addition to the research facilities of the departments of Medicine and Surgery, animal quarters, lecture hall, the Bressler Memorial Room, and the Baltimore Offices of the Board of Regents and the President of the University.

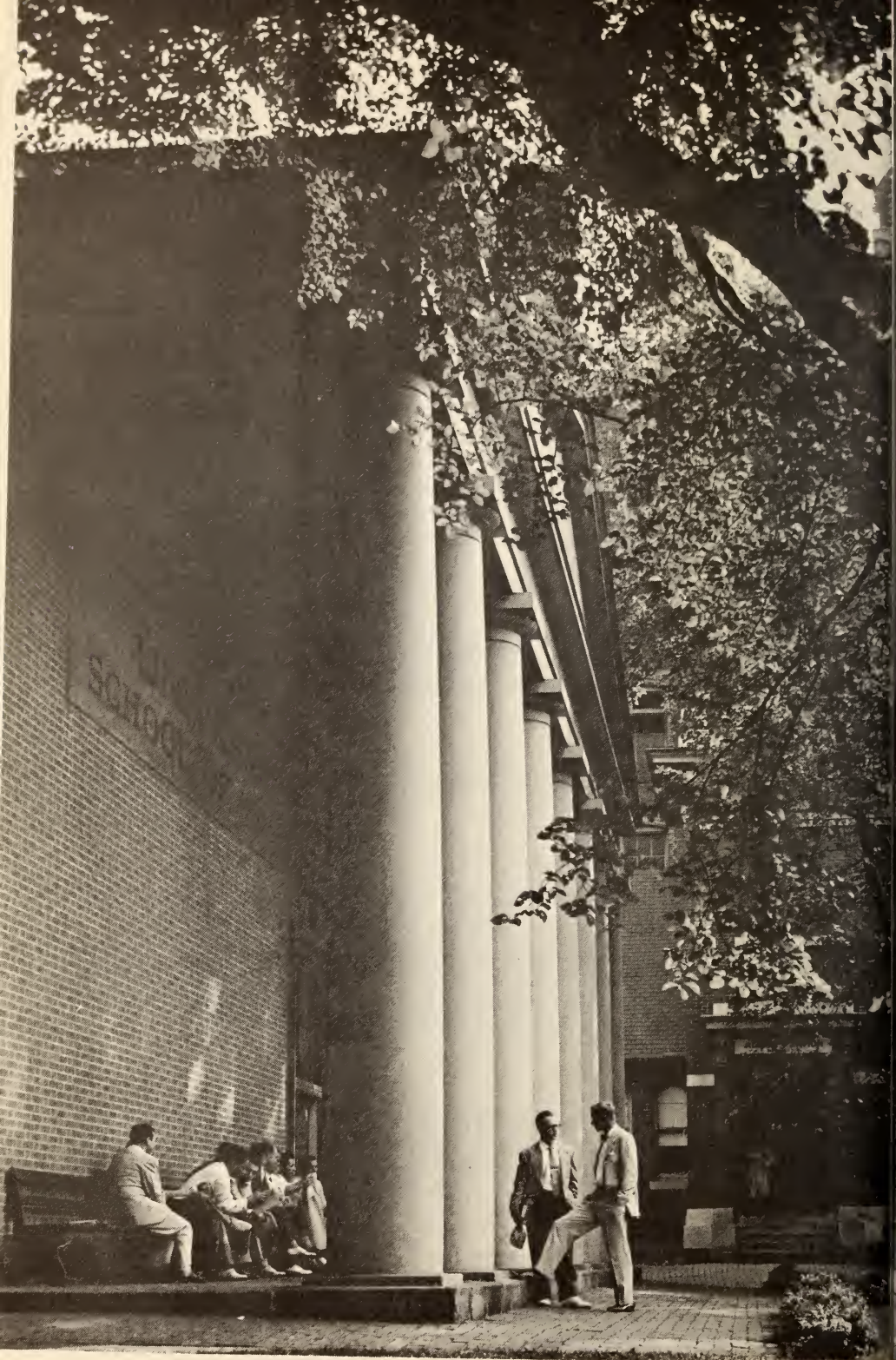
## *Howard Hall*

660 West Redwood Street will house the Departments of Biochemistry, Biophysics, Microbiology, Pathology, Pharmacology, and Physiology, in addition to the Central Animal Quarters of the Medical School. Howard Hall will be ready for occupancy early in 1963.

## *Medical Technology Building*

31 S. Greene Street houses some of the offices and laboratories of the departments of Pathology as well as investigative laboratories of the Clinical Departments.





*David Hall*





*Franck C. Bressler Research Laboratory*



*Health Science Library*

### Health Sciences Library

The Schools of Medicine, Dentistry, Pharmacy, Nursing, and Social Work are served by the Health Sciences Library in a modern, four story library building completed in 1960. The oldest part of the library collection dates back to 1813 when the University of Maryland purchased the books of Dr. John Crawford to form a medical library. The present library contains about 86,000 bound volumes and regularly receives over 1,600 scientific periodicals.

The library of the Medical and Chirurgical Faculty of Maryland and the Welch Medical Library are open to students of the School of Medicine without charge. Other libraries of Baltimore are the Peabody Library and the Enoch Pratt Free Library.

### Personnel

HOWARD ROVELSTAD, A.B., M.A., B.S.L.S.—*Director of Libraries and Professor of Library Science*

\*IDA MARIAN ROBINSON, A.B., B.S.L.S.—*Librarian and Associate Professor of Library Science*

\*HILDA E. MOORE, A.B., A.B.L.S.—*Associate Librarian and Assistant Professor of Library Science*

SARAH J. ATKINS—*Cataloging Assistant*

MARIE M. CHAFFMAN—*Assistant Circulation Librarian*

JACQUELINE B. CLEM—*Secretary to the Librarian*

\*EDITH M. COYLE, A.B., A.B.L.S., M.A.—*Head, Serials Department*

RUTH E. HANNA, A.B., M.S.L.S.—*Assistant Acquisitions Librarian*

LORRAINE S. HLAVIN—*Serials Assistant*

\*SIMONE C. HURST—*Head, Circulation Department*

\*FLORENCE R. KIRK—*Reference Librarian*

HANS-GUENTHER R. LISTFELDT, B.S., M.S.L.S.—*Assistant Serials Librarian*

\*BEATRICE MARRIOTT, B.A.—*Reference Librarian*

\*ELEANOR M. MITTEN, B.S., B.S.L.S.—*Head, Catalog Department*

KATHLEEN R. SCHELLER—*Cataloging Assistant*

ELWOOD STERLING—*Library Clerk*

MARJORIE F. VILK, B.S., IN ED.—*Cataloger*

KATHERINE M. WHEATLEY—*Serials Assistant*

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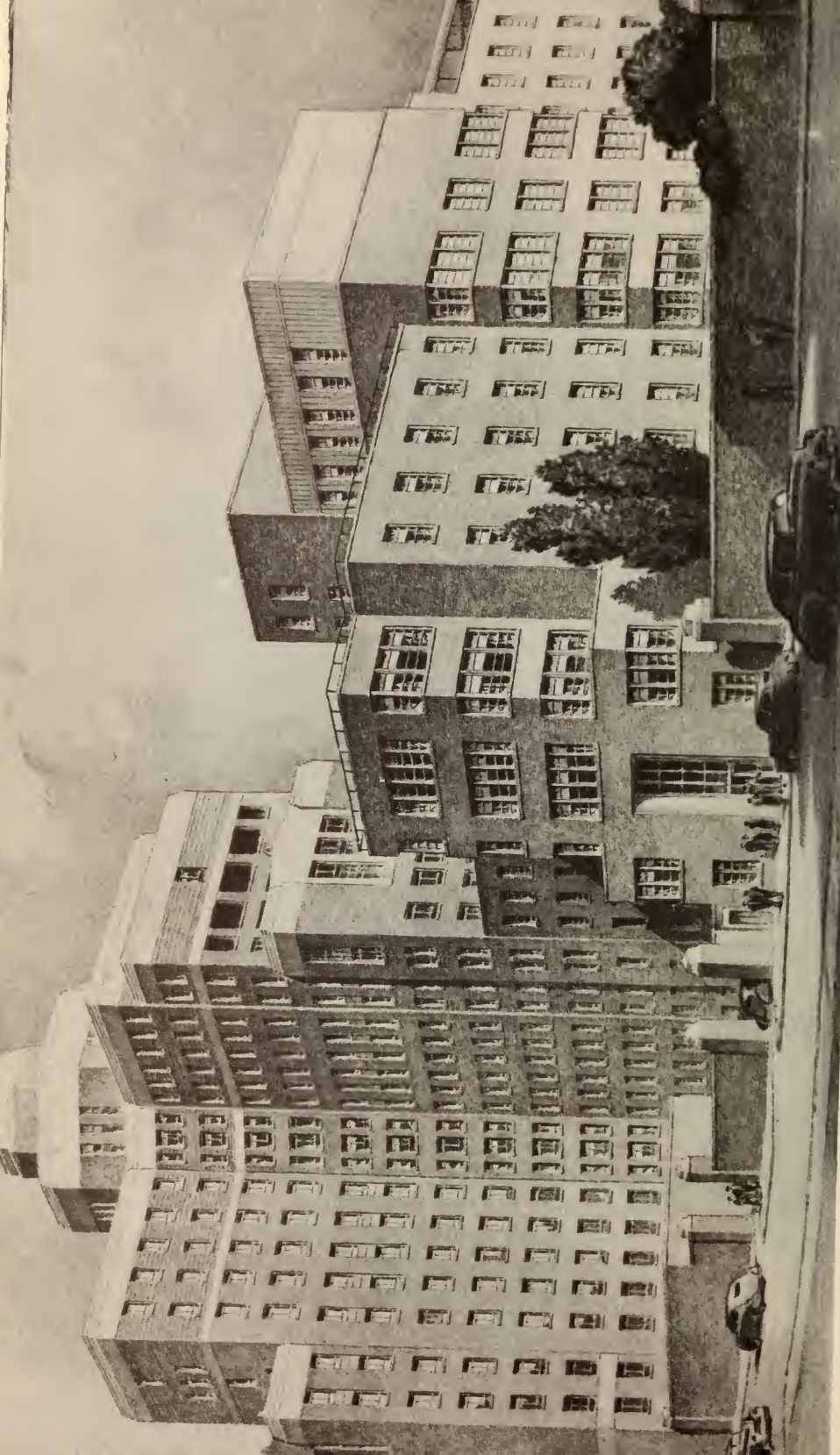
\* Certified Medical Librarian

### University Hospital

University Hospital is part of the University of Maryland. It is one of the oldest institutions for the care of the sick in the State of Maryland. It was opened in September 1823, under the name of the Baltimore Infirmary and at that time consisted of only four wards, one of which was reserved for patients with diseases of the eye.

In 1933-1934 the present University Hospital was erected with a capacity of 435 beds and 65 bassinets. In 1952-1953 a modern Psychiatric Institute Building was erected and a junctional wing was added to the general hospital. The new additions increased the hospital bed





*University Hospital and Psychiatric Institute Building*

capacity to 659 beds and 70 bassinets devoted to general medicine, surgery, obstetrics, pediatrics, psychiatry, and the various medical and surgical specialties. Three hundred and forty-two are for ward patients.

The hospital buildings are situated opposite the Medical School buildings. The students, therefore, are in close proximity to the clinical facilities of the University Hospital. The hospital as planned, makes a particularly attractive teaching unit and is the major clinical teaching facility of the Medical School.

#### EMERGENCY SERVICE

The Emergency Service of the hospital receives and treats a large number of emergency cases because of its proximity to the largest manufacturing and shipping districts of the city. During the past fiscal year a total of 37,074 patients were treated in the Emergency Room.

#### OUT PATIENT DEPARTMENT

The Out Patient Department is in the old University Hospital. It has been remodeled to provide space and facilities for more than thirty clinics, the departments of X-ray, a pharmacy, laboratory, and other ancillary services. Admission policies are predicated upon the teaching requirements of the School of Medicine and the ward services of the University Hospital.

Visits to the various clinics of the Out Patient Department during the last fiscal year totaled 146,807.





*Mercy Hospital*

## Affiliated Institutions

### *Mercy Hospital*

Mercy Hospital traces its history to the foundation of the Washington School of Medicine in 1824. In 1872 some of the members of this institution founded a new school, which was the beginning of the College of Physicians and Surgeons of Baltimore.

Washington School of Medicine opened a dispensary and a small hospital at the corner of Saratoga and Calvert Streets and named it the Baltimore City Hospital. This building served both as a hospital and a medical school. In 1874 the Sisters of Mercy, upon the invitation of Washington School of Medicine, assumed responsibility for the Nursing Services of the hospital. In 1876, Washington University merged with the College of Physicians and Surgeons.

In 1888 the Sisters of Mercy with the assistance of the Faculty of the College of Physicians and Surgeons laid the cornerstone of the present hospital. Since then the growing demands for more space have compelled the erection of addition after addition until now it accommodates 356 patients.

In 1909 the name Baltimore City Hospital was changed to Mercy Hospital.

The clinical material in the free wards is under the exclusive control of the University of Maryland School of Medicine and College of Physicians and Surgeons. One hundred ninety-three beds are allotted for teaching purposes.

During the year ended December 31, 1962, there were 10,531 general admissions, 30,290 dispensary visits, 2,099 obstetrical deliveries, and 19,468 emergency visits in the Accident Department.

### *The James Lawrence Kernan Hospital and Industrial School of Maryland For Crippled Children*

This institution is situated on an estate of 75 acres at Dickeyville. The site is within the northwestern city limits and of easy access to the city proper.

The location is ideal for the treatment of children, in that it affords all the advantages of sunshine and country air.

## 36 *Affiliated Institutions*

A hospital unit, complete in every respect, offers all modern facilities for the care of an orthopedic condition in children.

The hospital is equipped with 80 beds—endowed, and city and state supported.

The orthopedic dispensary at the University Hospital is maintained in closest affiliation and cares for the cases discharged from the Kernan Hospital. The Physical Therapy Department is very well equipped with modern apparatus and trained personnel. Occupational therapy has been fully established and developed under trained technicians.

### *Baltimore City Hospitals*

The services in Obstetrics, Gynecology, Radiology, and Anesthesiology are under the exclusive control and staffed by the University of Maryland School of Medicine.

### *Maryland General Hospital*

The services in Medicine and Surgery are under the control of the University of Maryland School of Medicine.

## Historical Sketch

The School of Medicine of the University of Maryland, the fifth medical school to be founded in the United States, filled a great need for such an institution in the Baltimore area. On December 18, 1807, the General Assembly of the State of Maryland passed "*An Act for Founding a Medical College in the City or Precincts of Baltimore for the Instruction of Students in the Different Branches of Medicine.*" The philosophy of the founding fathers and the principles upon which the school was established have not changed. This is aptly expressed in the opening paragraphs of the Founding Act: WHEREAS . . . it appears to the General Assembly that many benefits would accrue, not only to the State of Maryland but to many other parts of the United States, from the establishment of a seminary for the promotion of medical knowledge in the City of Baltimore, therefore, Be It Enacted . . . That a College . . . by the name of The College of Medicine of Maryland, be established . . . upon the following fundamental principles. . . . The said College shall be founded and maintained forever upon a most liberal plan, for the benefit of students of every country and every religious denomination, who shall be freely admitted to equal privileges and advantages of education, and to all the honors of the College, according to their merit, without requiring or enforcing any religious or civil tests."

The direction of the College of Medicine was vested in a Board known as "The Regents of the College" comprising the Board of Medical Examiners, the President and Professors of the College.

Dr. John Beale Davidge was selected as the first dean of the school. Under his farsighted leadership the original faculty formulated a new concept of medical education: "The science of medicine could not be successfully taught under the usual organization of medical schools; that without the aids of physiology and pathology, either associated with anatomy or as a separate chair of institutes, the philosophy of the body in sickness or in health could not be understood."

The first session of the College was not complete and lectures were delivered in the homes of Dr. Davidge, other members of the faculty, and at the Almshouse. From the beginning the School was fortunate in having patients at the Almshouse for use in bedside teaching.

The first recorded public graduation was in 1810 with five graduates listed, three from Maryland and two from Virginia.



At the end of 1807 there was, in Baltimore, a medical college with officers and faculty but no buildings or money. A lottery was authorized in the amount of \$10,000, which was subsequently increased to \$40,000. The faculty contributed what it could and interested citizens helped to raise funds with which to begin the school and provide for its maintenance.

The location selected for the College of Medicine was the northeast corner of Lombard and Greene Streets on property owned by Col. John Eager Howard of Revolutionary War fame. Mr. R. Cary Long, an eminent architect, drew plans for the beautiful replica of the Pantheon which stands today and houses the two old amphitheatres, the offices of the Dean, the Alumni Association, Postgraduate Committee, and other administrative offices. This building was first occupied late in the year of 1812. It is the oldest building in this country from which the degree of Doctor of Medicine has been granted annually since its erection. In this building one of the first medical school libraries in the United States was founded.

The Faculty and Regents endeavored constantly to improve the curriculum and teaching facilities. New faculty members were secured and new methods were introduced in the school. Dr. John Crawford, one of the new faculty members, vaccinated Baltimoreans against smallpox during 1800, while Dr. Waterhouse was doing the same for citizens of Boston. As early as 1810 he presented evidence that tuberculosis was contagious. His personal library became the nucleus of the present Medical School Library.

In 1812 the General Assembly authorized founding of the additional Schools of Law, Divinity, and Arts and Sciences. The University of Maryland School of Medicine was unique in the history of education, since the medical school preceded the undergraduate and other professional schools.

The Baltimore Infirmary, the forerunner of the University Hospital, was built in 1823. The School was one of the first to have its own hospital for clinical instruction, and it was here that intramural residency for senior students was first established.

There were many "firsts" through the years. The study of human anatomy was recognized as basic for the acquisition of medical knowledge, but dissection was limited by the difficulty in obtaining bodies. The trustees recommended compulsory dissection as early as 1833, but the faculty did not enforce the recommendation until 1848, the first medical school in the country with such a requirement. Finally, enactment of the Anatomy Law provided unclaimed bodies to the medical schools for dissection (1882). At the College of Medicine of Maryland instruction was given in Dentistry (1837) and in the techniques of auscultation and percussion (1841) for the first time in America. In 1844 Dr. David Stewart, the first professor of pharmacy in the United States, initiated his lectures at the School, and compulsory courses in Experimental Physiology and Microscopy were introduced in 1854. The first independent chairs for teaching Diseases of Women and Children (1867) and Diseases of the Eye and Ear (1873) were established. Systematic clinical instruction in Nervous Diseases was instituted in 1869.

The Faculty and Regents recognized the need for medical education to include areas other than the sciences. In 1891 a rule was adopted which required each student to complete successfully a preliminary examination in English before being admitted.



At the time of the charter the course of instruction was only four months. In 1848 it was increased to four and a half months and attendance at two sessions was required. In 1891 the period of instruction was increased to three years and in 1896 all Doctor of Medicine candidates were required to complete a four year course of instruction.

Graduate programs were offered as early as 1860 and a special ten weeks summer course was given in 1870. These were the initial Postgraduate courses which have continued to the current era.

Honorary degrees have been conferred upon outstanding persons on rare occasions. The honorary M.D. degree conferred upon Dr. Ephraim McDowell by the University of Maryland School of Medicine in 1825 was his only degree. The Marquis de Lafayette was awarded the honorary degree of LL.D. during his visit to America in 1824.

The University of Maryland School of Medicine enjoys a rich heritage bequeathed by two other medical schools and their affiliated hospitals. Mergers with the Baltimore Medical College in 1913 and the College of Physicians and Surgeons in 1915 provided the University of Maryland School of Medicine with greatly expanded faculty and clinical facilities.

The state University was established in 1920 when the professional schools in Baltimore merged with the Maryland State College of Agriculture at College Park, Maryland. The state of Maryland assumed the financial obligation of all of the schools.

Throughout the many years since the Medical School's founding the prime emphasis has been placed on fitting men and women for the practice of medicine. Significant research contributions were made by many graduates although systematic programs of experimentation received greater emphasis in the latter years, especially since the erection of the Bressler Research Laboratory in 1939-40.

Women first entered the Medical School in 1921. There were six women in the 1922 class, two of whom completed the four year course of study. The School was integrated racially almost from the beginning and students of most races have completed the course of study and graduated.

# Administration

## BOARD OF REGENTS AND MARYLAND STATE BOARD OF AGRICULTURE

*Chairman* CHARLES P. MCCORMICK  
*McCormick and Company, 414 Light St., Baltimore 2*

*Vice-Chairman* EDWARD F. HOLTER  
*Farmers Home Administration, 103 S. Gay St., Baltimore 2*

*Secretary* B. HERBERT BROWN  
*The Baltimore Institute, 10 East Chase St., Baltimore 1*

*Treasurer* HARRY H. NUTTLE  
*Denton*

*Assistant Secretary* LOUIS L. KAPLAN  
*5800 Park Heights Avenue, Baltimore 15*

*Assistant Treasurer* S. EWING TUTTLE  
*907 Latrobe Building, Charles and Read Sts., Baltimore 2*

RICHARD W. CASE  
*Commercial Credit Building, Baltimore*

THOMAS W. PANGBORN  
*The Pangborn Corporation, Pangborn Blvd., Hagerstown*

THOMAS B. SYMONS  
*Suburban Trust Company, 6950 Carroll Ave., Takoma Park*

WILLIAM C. WALSH  
*Liberty Trust Building, Cumberland*

MRS. JOHN L. WHITEHURST  
*4101 Greenway, Baltimore 18*

OFFICERS OF ADMINISTRATION OF THE  
SCHOOL OF MEDICINE

WILSON H. ELKINS, B.A., M.A., LITT.B., D.PHIL.  
*President*

WILLIAM S. STONE, M.S., M.D., D.SC.  
*Director, Medical Education and Research, and Dean*

DIETRICH C. SMITH, B.A., M.A., PH.D.  
*Associate Dean*

G. WATSON ALGIRE, M.S.  
*Director of Admission and Registrations*

# Faculty Board

## ACADEMIC SESSION 1962-63

DR. WILLIAM S. STONE, *Chairman*  
DR. DIETRICH C. SMITH, *Vice Chairman and Secretary*

## ELECTED MEMBERS

<i>Members</i>	<i>Alternates</i>	<i>Term Expires</i>
<i>Anesthesiology</i>		
DR. NORMAN B. HOLLINGSWORTH	DR. MARTIN I. GOLD	1965
<i>Anatomy</i>		
DR. ELWYN A. SAUNDERS	DR. THEODORE LEVEQUE	1963
DR. CHARLES G. CRISPENS, JR.	DR. HENRICUS KUYPERS	1964
<i>Biological Chemistry</i>		
DR. ARTHUR J. EMERY, JR.	DR. GEORGE D. DUDA	1965
<i>Medicine</i>		
DR. CHARLES SHAW	DR. ROBERT SINGLETON	1963
DR. JAMES KARNS	DR. LEONARD SCHERLIS	1964
DR. EDWARD COTTER	DR. JOHN WISWELL	1965
<i>Microbiology</i>		
DR. OLLIE R. EYLAR, JR.	DR. EDWARD ROSENZWEIG	1964
<i>Obstetrics-Gynecology</i>		
DR. J. K. B. E. SEEGER, JR.	DR. HUGH MCNALLY	1963
DR. EDMUND B. MIDDLETON	DR. F. X. PAUL TINKER	1965
<i>Ophthalmology</i>		
DR. SAMUEL L. FOX	DR. M. JAIN	1964
<i>Pathology</i>		
DR. ZUHER NAIB	DR. PETER RASMUSSEN	1963
<i>Pediatrics</i>		
DR. RAY HEPNER	DR. THOMAS A. GOOD	1963
DR. RICHARD L. LONDON	DR. KARL H. WEAVER	1964
DR. ROBERT S. MOSSER	DR. A. H. FINKELSTEIN	1965
<i>Pharmacology</i>		
DR. RAYMOND BURGISON	DR. JOHN J. O'NEILL	1965
<i>Physiology</i>		
DR. LEO M. KARPELES	DR. SHELDON GREISMAN	1964



<i>Members</i>	<i>Alternates</i>	<i>Term Expires</i>
<i>Preventive Medicine</i>		
DR. AUBREY RICHARDSON	DR. PAUL RICHARDSON	1963
<i>Psychiatry</i>		
DR. WILLIAM HOLDEN	DR. WALTER WEINTRAUB	1963
DR. VIRGINIA HUFFER	DR. FRANK RAFFERTY	1964
DR. RUSSEL MONROE	DR. BENJAMIN POPE	1965
<i>Radiology</i>		
DR. DONALD A. WOLFEL	DR. JAMES A. LYON	1965
<i>Surgery</i>		
DR. WILLIAM H. MOSBERG, JR.	DR. EUGENE LINBERG	1963
DR. WILLIAM D. LYNN	DR. H. C. BOWIE	1964
DR. JOHN D. YOUNG	DR. EARL GALLEHER	1965

## HOSPITAL MEDICAL BOARD

	<i>Term Expires</i>
DR. RAYMOND K. THOMPSON, <i>President</i>	1963
DR. FRANCIS J. BORGES, <i>Secretary</i>	1963

## ALUMNI ASSOCIATION

DR. ARTHUR G. SIWINSKI	1963
DR. FRANK K. MORRIS	1963

## DEAN'S OFFICE

DR. WILLIAM S. STONE . . . . .	Dean
DR. DIETRICH C. SMITH . . . . .	Associate Dean
MR. LADISLAUS GRAPSKI . . . . .	Associate Dean

## DEPARTMENTAL HEADS

DR. WILLIAM D. BLAKE . . . . .	Physiology
DR. J. EDMUND BRADLEY . . . . .	Pediatrics
DR. ROBERT W. BUXTON . . . . .	Surgery
DR. JOHN M. DENNIS . . . . .	Radiology
DR. FRANK H. J. FIGGE . . . . .	Anatomy
DR. EUGENE B. BRODY . . . . .	Psychiatry
DR. HARLAN I. FIRMINGER . . . . .	Pathology
DR. ARTHUR L. HASKINS . . . . .	Obstetrics-Gynecology
DR. MARTIN HELRICH . . . . .	Anesthesiology
DR. JOHN C. KRANTZ, JR. . . . .	Pharmacology
DR. LORIN J. MULLINS . . . . .	Biophysics
DR. RICHARD D. RICHARDS . . . . .	Ophthalmology
DR. GEORGE ENTWISLE . . . . .	Preventive Medicine
DR. PATRICK B. STOREY . . . . .	Post Graduate Committee
	Biological Chemistry
DR. CHARLES L. WISSEMAN, JR. . . . .	Microbiology
DR. THEODORE E. WOODWARD . . . . .	Medicine

## 44 *Executive Committee of Faculty*

### DIVISIONAL HEADS

#### *Medicine*

DR. MILTON SACKS . . . . . Clinical Pathology  
DR. CHARLES VAN BUSKIRK . . . Neurology

#### *Radiology*

DR. JOHN M. DENNIS . . . . . Diagnosis  
DR. FERNANDO BLOEDORN . . . Therapy

#### *Surgery*

DR. JAMES G. ARNOLD, JR. . . . Neurological Surgery  
DR. R. ADAMS COWLEY . . . . Thoracic Surgery

#### *Preventive Medicine*

DR. PAUL F. RICHARDSON . . . Physical Medicine &  
Rehabilitation

### MEDICAL SCHOOL REPRESENTATIVES TO THE UNIVERSITY SENATE

DR. SAMUEL P. BESSMAN	1963
DR. THOMAS B. CONNOR	1963
DR. VERNON E. KRAHL	1963
DR. ANDREW G. SMITH	1963
DR. THEODORE LEVEQUE	1963
DR. WILLIAM D. BLAKE	1964
DR. ROBERT W. BUXTON	1964
DR. ARLIE MANSBERGER	1964
DR. PATRICK STOREY	1964
DR. JOHN M. DENNIS	1964
DR. EUGENE B. BRODY	1965
DR. HARLAN I. FIRMINGER	1965
DR. RAY HEPNER	1965
DR. ADALBERT F. SCHUBART	1965
DR. CHARLES VAN BUSKIRK	1965

### EXECUTIVE COMMITTEE OF THE FACULTY

DR. WILLIAM S. STONE . . . . . Dean—*Chairman*  
DR. DIETRICH C. SMITH . . . . . Associate Dean  
MR. LADISLAUS GRAPSKI . . . . . Associate Dean  
DR. WILLIAM D. BLAKE  
DR. J. EDMUND BRADLEY  
DR. ROBERT W. BUXTON  
DR. JOHN M. DENNIS  
DR. FRANK H. J. FIGGE  
DR. EUGENE B. BRODY  
DR. HARLAN I. FIRMINGER  
DR. ARTHUR L. HASKINS  
DR. MARTIN HELRICH  
DR. JOHN C. KRANTZ, JR.

DR. LORIN J. MULLINS  
DR. RICHARD D. RICHARDS  
DR. GEORGE ENTWISLE  
DR. PATRICK B. STOREY  
DR. CHARLES L. WISSEMAN, JR.  
DR. THEODORE E. WOODWARD

*Elected Members*

DR. E. F. COTTER	1963
DR. JEROME K. MERLIS	1963
DR. VERNON E. KRAHL	1963
DR. ROBERT B. SCHULTZ	1963

## Faculty 1962-1963

### *Emeriti*

- H. BOYD WYLIE, M.D., *Professor of Biochemistry and Dean, Emeritus*  
THOMAS R. CHAMBERS, A.B., M.D., *Associate Professor of Surgery, Emeritus*  
CHARLES REID EDWARDS, M.D., *Professor of Surgery, Emeritus*  
EDGAR B. FRIEDENWALD, M.D., *Professor of Clinical Pediatrics, Emeritus*  
ANDREW C. GILLIS, M.A., M.D., D.SC., LL.D., *Professor of Neurology, Emeritus*  
FRANK W. HACHTEL, M.D., *Professor of Bacteriology, Emeritus*  
J. MASON HUNDLEY, JR., M.D., *Professor of Gynecology, Emeritus*  
F. L. JENNINGS, M.D., *Professor of Clinical Surgery, Emeritus*  
HARRY M. ROBINSON, SR., M.D., *Professor of Dermatology, Emeritus*  
HUGH R. SPENCER, M.D., *Professor of Pathology, Emeritus*  
W. HOUSTON TOULSON, M.D., *Professor of Urology, Emeritus*  
HENRY J. WALTON, M.D., *Professor of Roentgenology, Emeritus*  
WALTER D. WISE, M.D., *Professor of Surgery, Emeritus*  
WAITMAN F. ZINN, M.D., *Professor of Otolaryngology, Emeritus*

### *Active*

#### *Anatomy*

- FRANK H. J. FIGGE, *Professor of Anatomy and Head of the Department; B. A., Colorado College, 1927; Ph.D., University of Maryland, 1934.*
- RAYMOND MELVIN ATKINS, *Instructor in Clinical Anatomy; M.D., University of Maryland, 1952.*
- ROBERT PAGE BOUDREAU, *Assistant Professor; B.A., Princeton University, 1943; M.D., Syracuse University, 1946.*
- HARRY C. BOWIE, *Associate in Clinical Anatomy; B.S., University of Maryland, 1933; M.D., 1936.*
- OTTO C. BRANTIGAN, *Professor of Clinical Anatomy; B.S., Northwestern University, 1931; M.D., 1934.*
- THEODORE R. CARSKI, *Instructor; B.A., Johns Hopkins University, 1952; M.D., University of Maryland, 1956.*
- CHARLES G. CRISPENS, JR., *Assistant Professor; B.S., Pennsylvania State University, 1953; M.S., Ohio State University, 1955; Ph. D., Washington State University, 1959.*
- PETER C. FUCHS, B.S., Georgetown, 1957; Ph.D., University of Maryland, 1961.
- PAUL C. HUDSON, *Instructor; M.D., University of Maryland, 1955.*



VERNON E. KRAHL, *Professor of Anatomy*; B.S., University of Pittsburgh, 1939; M.S., 1940; Ph.D., University of Maryland, 1946.

THEODORE F. LEVEQUE, *Associate Professor*; B.A., University of Denver, 1949; M.S., 1950; Ph.D., University of Colorado, 1954.

ROBERT B. MCFADDEN, *Instructor*; B.S., Loyola College, Baltimore, 1940; M.D., University of Maryland, 1943.

ROBERT E. MARTIN, *Instructor in Clinical Anatomy*; M.D., Washington University School of Medicine, 1954.

KARL FREDERICK MECH, *Associate Professor*; B.S., University of Maryland, 1932; M.D., 1935.

ENRIQUE RAMON-MOLINER, *Research Assistant Professor*; M.D., Facultad de Medicina, Madrid, Spain, 1956.

WALLE J. H. NAUTA, *Professor of Anatomy*; M.D., University of Utrecht, 1942, Ph.D., 1945.

ROSS Z. PIERPONT, *Associate in Clinical Anatomy*; B.S., University of Maryland, 1939; M.D., 1940.

HERBERT E. REIFSCHNEIDER, *Associate in Clinical Anatomy*; B.A., Johns Hopkins University, 1922; M.D., University of Maryland, 1927.

WILLIAM BOOTH SETTLE, *Assistant Professor of Clinical Anatomy*; B.A., University of Pennsylvania, 1930; M.D., 1933.

WILLIAM WALLACE WALKER, *Associate Professor of Clinical Anatomy*; B.S., West Virginia University, 1921; M.D., University of Maryland, 1923.

### Research Assistant

THOMAS A. BURNS

### Graduate Student Assistants

JEANNETTE FORSYTH  
C. BOYD PFEIFFER

### Graduate Students Majoring in Anatomy

JOHN L. ECHTERNACH  
JEANNETTE FORSYTH  
JASON M. MASTERS  
JOSEPH L. MAZALESKI  
JOHN O. MORRISON  
C. BOYD PFEIFFER  
BEVERLY L. REYNOLDS  
CARL K. UYEDA

### Fellows

JEANNETTE FORSYTH

### Anesthesiology

MARTIN HELRICHS, *Professor and Head of the Department of Anesthesiology*; B.S., Dickinson College, 1946; M.D., University of Pennsylvania, 1946.

JOHN R. ATWOOD, *Assistant Professor*; A.B., Washington & Lee, 1942; M.D., Washington University, 1945.

THOMAS J. DEKORNFELD, *Assistant Professor*; B.S., George Washington University, 1948; M.S., 1949; M.D., Harvard Medical School, 1953.

MARTIN I. GOLD, *Assistant Professor*; B.A., University of Pennsylvania, 1950; M.D., State University of New York, College of Medicine, Brooklyn, 1954.

NORMAN B. HOLLINGSWORTH, *Associate Professor*; B.S., New York University, 1948; M.D., New York Medical College, 1952.

WALTER LEVY, *Instructor*; M.D., University of Maryland, 1929.

ALFRED T. NELSON, *Clinical Professor of Anesthesiology*; M.D., University of Maryland, 1943.

CHANG JOON PARK, *Instructor*; M.D., Kyung-buk University, 1953.

ALBERT PATS, *Instructor*; B.S., University of Maryland, 1950; M.D., 1954.

REGINALD O. RABBITT, *Instructor*; M.D., Queens University School of Medicine, 1941.

## 48 Faculty

JOSEPH REDDING, *Instructor*; A.B., University of North Carolina, 1943; M.D., University of Maryland, 1948.

PEGGY J. CLARK-ROBERTS, *Instructor*; M.D., University of Liverpool Medical School, 1944.

CALBERT T. SEEBERT, *Instructor*; M.D., Jefferson Medical College, 1951.

THEODORE E. STACY, JR., *Clinical Instructor in Anesthesiology*; Ph.D., University of Maryland, 1923; M.D., 1928.

### Biological Chemistry

EDWARD JOHN HERBST, *Professor of Biological Chemistry*; B.S., University of Wisconsin, 1943; M.S., 1944; Ph.D., 1949.

SAMUEL P. BESSMAN, *Associate Professor*; M.D., Washington University, 1944.

ANN VIRGINIA BROWN, *Instructor*; A.B., Goucher College, 1940.

GEORGE D. DUDA, *Assistant Professor*; B.S., City College of New York, 1951; Ph.D., Duke University, 1958.

ARTHUR J. EMERY, JR., *Associate Professor*; B.S., Bucknell University, 1946; Ph.D., University of Rochester, 1954.

ENNIS C. LAYNE, *Instructor*; B.S., George Washington University, 1950; M.S., 1953; Ph.D., 1955.

### Fellows

JOSEPH COLBOURN, *Fellow*

WILLIAM FISHBEIN, *Fellow*.

LAURA ANNE HOCKLEY, *Fellow*.

BERNARD KARPERS, *Part-Time Fellow*.

MICHAEL KILCHENSTEIN, *Fellow*.

STEPHEN LESKO, JR., *Fellow*.

CARLETON LINDGREN, *Part-Time Fellow*.

DAVID SCHATANOFF, *Fellow*.

MORTON SCHMUKLER, *Fellow*.

GEORGE H. THOMAS, *Fellow*.

PAUL TOCCI, *Fellow*.

### Biophysics

LORIN J. MULLINS, *Professor of Biophysics and Head of Department*; B.S., University of California, 1937; Ph.D., 1940.

RAYMOND A. SJODIN, *Associate Professor*; B.S., California Institute of Technology, 1951; Ph.D., University of California, 1955.

### Medicine

THEODORE E. WOODWARD, *Professor of Medicine and Head of the Department*; B.S., Franklin and Marshall College, 1934; M.D., University of Maryland, 1938; D.Sc., (Hon.), Western Maryland College, 1950; D.Sc. (Hon.), Franklin and Marshall College, 1954.

CONRAD B. ACTON, *Associate in Medicine*; B.S., Haverford College, 1925; M.D., Johns Hopkins University, 1929.

MARIE AMELIA ANDERSCH, *Associate Professor of Biochemistry in Medicine*; B.S., University of Illinois, 1926; M.S., State University of Iowa; Ph.D., 1934.

ANDRES W. ANDERSON, *Assistant in Medicine*; DD.S., University of Maryland, 1921; M.D., 1929.

REUBIN ANDRES, *Assistant Professor of Medicine*; M.D., Southwestern Medical College, 1944.

LEON ASHMAN, *Associate in Medicine*; B.S., College of the City of New York, 1927; M.D., University of Maryland, 1932.

DAVID BACHARACH, *Instructor in Dermatology and Syphilology*; B.A., St. John's College, 1938; M.D., University of Maryland, 1942.

EDMUND GEORGE BEACHAM, *Assistant Professor of Medicine*; B.S., University of Maryland, 1936; M.D., 1940.

RAY J. BEASLEY, *Instructor in Medicine*; M.D., Johns Hopkins University, 1949.

GEORGE BECK, *Assistant in Medicine*; A.B., Western Maryland College, 1949; M.D., University of Maryland, 1953.

- EUGENE SYDNEY BERESTON, *Associate Professor of Dermatology*; B.A., Johns Hopkins University, 1933; M.D., University of Pennsylvania, 1945; D.Sc., 1955.
- LOUIS VARDEE BLUM, *Associate in Medicine*; B.A., University of Delaware, 1930; M.D., University of Maryland, 1934.
- FRANCIS JOSEPH BORGES, *Assistant Professor of Medicine and Assistant Head of Hypertensive Clinic*; B.S., Loyola College, 1946; M.D., University of Maryland, 1950.
- JOSEPH B. BRONUSHAS, *Assistant in Medicine*; B.S., Loyola College, 1946; M.D., University of Maryland, 1950.
- HOWARD MATHESON BUBERT, *Associate Professor of Medicine*; M.D., University of Maryland, 1920.
- WILLIAM ROSS BUNDICK, *Associate in Dermatology*; M.D., University of Maryland, 1941.
- BERNARD BURGIN, *Instructor in Medicine*; B.A., University of Cincinnati, 1936; M.D., 1939.
- MARSHALL PAUL BYERLY, *Associate in Medicine*; M.D., University of Maryland, 1925.
- GORDON CADER, *Instructor in Medicine*; M.D., Johns Hopkins University, 1948.
- T. NELSON CAREY, *Professor of Clinical Medicine*; M.D., University of Maryland, 1927.
- DOUGLASS G. CARROL, *Assistant Professor of Medicine*; A.B., Yale University, 1937; M.D., Johns Hopkins University, 1942.
- FRANCIS P. CHINARD, *Assistant Professor of Medicine*; A.B., University of California, 1937; M.D., Johns Hopkins University, 1941.
- GERARD CHURCH, *Instructor in Medicine*; M.B., Ch.B., University of Glasgow, 1951; F.R.F.P.S. (G), 1956.
- B. STANLEY COHEN, *Instructor in Medicine*; M.D., University of Maryland, 1947.
- JONAS H. COHEN, *Associate in Medicine*; B.A., Johns Hopkins University, 1936; M.D., 1940.
- MORRIS M. COHEN, *Assistant Professor of Dermatology*; B.S., M.D., University of Pittsburgh, 1937.
- THOMAS B. CONNOR, *Associate Professor of Medicine and Head, Division of Endocrinology and Metabolism*; A.B., Loyola College, 1943; M.D., University of Maryland, 1946.
- ELMER ELLSWORTH COOK, JR., *Assistant in Medicine*; B.A., University of Maryland, 1940; M.D., 1943.
- EDWARD F. COTTER, *Associate Professor of Medicine; Associate in Neurology*; M.D., University of Maryland, 1935.
- WILLIAM F. COX, III, *Associate in Medicine*; A.B., Amherst College, 1946; M.D., Jefferson Medical College, 1947.
- ERNEST CROSS, JR., *Instructor in Medicine*; A.B., Johns Hopkins University, 1937; M.D., 1941.
- JOHN R. DAVIS, *Instructor in Medicine*; B.A., West Virginia University, 1938; M.D., University of Maryland, 1942.
- MARVIN H. DAVIS, *Assistant in Medicine*; A.B., Johns Hopkins University, 1940; M.D., 1943.
- WINSTON C. DUDLEY, *Instructor in Medicine*; B.A., Oberlin College, 1943; M.D., University of Maryland, 1951.
- ROBERT G. DUVAL, JR., *Instructor in Medicine*; M.D., University of Maryland, 1947.
- JOHN SHELDON EASTLAND, *Associate Professor of Medicine*; A.B., Johns Hopkins University, 1921; M.D., University of Maryland, 1925.
- WILLIAM CARL EBELING, III, *Assistant Professor of Medicine and Head, Division of Gastroenterology*; B.S., University of Maryland, 1943; M.D., 1944.
- PATRICIA A. ELISBERG, *Assistant Instructor in Experimental Medicine and Pediatrics*; B.A., Agnes Scott College, 1945; M.D., Tulane University, 1950.
- GEORGE F. ELLINGER, *Associate Professor of Medicine*; B.A., University of Minnesota, 1931; M.D., 1935.
- FRANCIS A. ELLIS, *Associate Professor of Dermatology*; B.A., Johns Hopkins University, 1921; M.D., University of Maryland, 1925.

## 50 Faculty

- GEORGE ENTWISLE, *Assistant Professor of Medicine*; B.S., University of Massachusetts, 1944; M.D., Boston University, 1948.
- WILLIAM C. ESMOND, *Assistant in Medicine*; B.S., University of Maryland, 1940; M.D., 1951.
- WILLIAM L. FEARING, *Associate in Neurology*; M.D., University of Maryland, 1934.
- MAURICE FELDMAN, JR., *Instructor in Medicine*; B.A., Johns Hopkins University, 1941; M.D., University of Maryland, 1944.
- PHILIP D. FLYNN, *Instructor in Medicine*; B.S., Georgetown University, 1929; M.D., 1933.
- WETHERBEE FORT, *Assistant Professor of Medicine*; M.D., University of Maryland, 1919.
- IRVING FREEMAN, *Assistant Professor of Medicine*; B.S., University of Maryland, 1932; M.D., 1935.
- MARION FRIEDMAN, *Assistant in Medicine*; B.S., University of Maryland, 1938; M.D., 1942.
- AUDREY FUNK, *Instructor in Medicine*; B.A., Goucher College, 1940.
- JOSEPH C. FURNARI, *Associate in Medicine*; B.S., University of Pittsburgh, 1938; M.D., University of Maryland, 1942.
- WILLIAM A. GAKENHEIMER, *Instructor in Medicine*; M.D., University of Maryland, 1947.
- EUGENE J. GANGAROSA, *Assistant Professor of Medicine*; A.B., University of Rochester, 1950; M.S., 1955; M.D., 1954.
- JOSEPH R. GLADUE, *Instructor in Medicine*; M.D., University of Rochester, 1948.
- MARVIN GOLDSTEIN, *Instructor in Medicine*; A.B., Johns Hopkins University, 1941; M.D., University of Maryland, 1944.
- LUIS FELIPE GONZALEZ, *Instructor in Medicine*; M.D., University of Maryland, 1952.
- SHELDON EDWARD GREISMAN, *Assistant Professor of Medicine*; M.D., New York University, 1949.
- WILLIAM HOWARD GRENZER, *Assistant in Medicine*; A.B., Johns Hopkins University, 1931; M.D., University of Maryland, 1935.
- LEWIS PERKINS GUNDRY, *Associate Professor of Medicine*; B.A., Johns Hopkins University, 1924; M.D., University of Maryland, 1928.
- SAMUEL JAY HANKIN, *Instructor in Medicine*; M.D., University of Maryland, 1928.
- LOUIS HARMON, *Instructor in Medicine*; A.B., Lincoln University, 1928; M.D., Howard University, 1934.
- WILLIAM G. HELFRICH, *Associate in Medicine*; B.S., Loyola College, 1931; M.D., University of Maryland, 1935.
- W. GRAFTON HERSPERGER, *Associate in Medicine*; A.B., Johns Hopkins University, 1929; M.D., 1933.
- LEON H. HETHERINGTON, *Associate Professor of Medicine*; B.S., Washington and Jefferson College, 1923; M.D., University of Pennsylvania, 1930.
- MARK B. HOLLANDER, *Assistant Professor of Dermatology*; A.B., Johns Hopkins University, 1927; M.D., University of Maryland, 1931.
- HENRY W. J. HOLLJES, *Associate in Medicine*; A.B., Western Maryland College, 1941; M.D., University of Maryland, 1944.
- Z. VANCE HOOPER, *Associate in Gastroenterology*; M.D., University of Maryland, 1920.
- RICHARD B. HORNICK, *Assistant Professor of Medicine*; A.B., Johns Hopkins University, 1951; M.D., 1955.
- BARBARA HULFISH, *Instructor in Neurology*; B.A., American University, 1944; M.D., University of Rochester, 1952.
- MEYER WILLIAM JACOBSON, *Assistant Professor of Medicine*; A.B., Johns Hopkins University, 1928; M.D., University of Maryland, 1932.
- RUBEN JIJI, *Instructor in Medicine*; M.D., Royal College of Medicine, Baghdad, Iraq, 1950.
- EDWARD S. KALLINS, *Instructor in Medicine*; Ph.G., University of Maryland, 1930; B.S., 1932; M.D., 1934.



- WILLIAM HENRY KAMMER, JR., *Instructor in Medicine*; B.A., Loyola College, 1935; M.D., University of Maryland, 1939.
- ARTHUR KARFGIN, *Associate in Medicine*; B.S., Washington College, 1929; M.D., University of Maryland, 1932.
- WALTER E. KARFGIN, *Associate in Medicine*; B.S., Washington College, 1932; M.D., University of Maryland, 1936.
- JAMES R. KARNS, *Associate Professor of Medicine and Head, Student Health Service*; B.S., University of Maryland, 1939; M.D., 1940.
- FRANK THOMAS KASIK, JR., *Assistant in Medicine*; B.S., University of Maryland, 1940; M.D., 1950.
- LEON E. KASSEL, *Assistant in Medicine*; M.D., University of Virginia, 1949.
- IRVIN B. KEMICK, *Instructor in Medicine*; Ph.G., University of Maryland, 1933; B.S., 1935; M.D., 1937.
- LAURISTON LIVINGSTON KEOWN, *Instructor in Medicine*; B.A., St. John's College, 1929; M.D., University of Maryland, 1933.
- JOSEPH D. B. KING, *Instructor in Medicine*; A.B., Princeton University, 1941; M.D., Johns Hopkins University, 1944.
- CRAWFORD N. KIRKPATRICK, JR., *Instructor in Pediatrics*; A.B., Harvard University, 1940; M.D., Columbia University, 1943.
- LEON A. KOCHMAN, *Associate in Medicine*; M.D., University of Maryland, 1933.
- MORTON D. KRAMER, *Instructor in Medicine*; A.B., University of Maryland School of Pharmacy; M.D., University of Maryland, 1955.
- LOUIS A. M. KRAUSE, *Professor of Clinical Medicine*; M.D., University of Maryland, 1917.
- MORTON M. KREIGER, *Assistant in Medicine*; B.S., University of Maryland, 1950; M.D., 1952.
- FRANK G. KUEHN, *Instructor in Medicine*; M.D., University of Maryland, 1950.
- CHARLES EDWARD LEACH, *Assistant Professor of Medicine*; M.D., Duke University, 1935.
- YU-CHEN LEE, *Instructor in Medicine*; B.S., Taikoku Imperial University, 1945; M.D., National Taiwan University, Formosa, 1949.
- SAMUEL LEGUM, *Assistant Professor of Medicine*; A.B., Johns Hopkins University, 1928; M.D., University of Maryland, 1932.
- LEE R. LERMAN, *Assistant in Dermatology*; B.S., Pennsylvania State University, 1930; M.D., Hahnemann Medical College, 1935.
- PHILIP FRANKLIN LERNER, *Assistant Professor of Neurology*; A.B., Johns Hopkins University, 1927; M.D., University of Maryland, 1931.
- FRANKLIN EARL LESLIE, *Instructor in Medicine*; M.D., University of Maryland, 1941.
- MANUEL LEVIN, *Instructor in Medicine*; A.B., Johns Hopkins University, 1930; M.D., University of Maryland, 1934.
- SOL LEVINSON, *Instructor in Medicine*; B.A., New York University, 1945; M.D., Albany Medical College, 1949.
- KURT LEVY, *Assistant Professor of Medicine*; M.D., University of Cologne, 1923.
- EPHRAIM THEODORE LISANSKY, *Associate Professor of Medicine*; B.A., Johns Hopkins University, 1933; M.D., University of Maryland, 1937.
- LEONARD LISTER, *Instructor in Medicine*; M.D., University of Maryland, 1951.
- SZE-JUI LIU, *Associate in Medicine*; M.D., National Central University Medical College, China, 1947.
- WILLIAM SAMUEL LOVE, *Professor of Clinical Medicine*; A.B., Johns Hopkins University, 1918; M.D., University of Maryland, 1923.
- ROBERT J. LYDEN, *Assistant in Medicine*; M.D., St. Louis University, 1952.
- BARBARA ANN LYONS, *Junior Instructor in Medicine*; B.A., Notre Dame College of Maryland, 1952.
- DAVID N. MARINE, *Instructor in Medicine*; M.D., Johns Hopkins University, 1947.



## 52 Faculty

- JAMES T. MARSH, *Lecturer in Medicine*; A.B., Western Maryland College, 1916; M.D., University of Maryland, 1924.
- JASON M. MASTERS, *Instructor in Medicine*; B.A., High Point College, 1951; M.A., Sul Ross State College, 1956.
- JOSEPH CHARLES MATCHAR, *Instructor in Medicine*; A.B., Johns Hopkins University, 1939; M.D., University of Maryland, 1943.
- FRED R. MCCRUMB, JR., *Associate Professor of Medicine and Head, Division of Infectious Diseases*; M.D., University of Maryland, 1948.
- GEORGE MCLEAN, *Assistant Professor of Medicine*; M.D., University of Maryland, 1916.
- JEROME K. MERLIS, *Professor of Neurology and Professor of Clinical Neurophysiology*; B.S., University of Louisville, 1933; M.D., 1937; M.S., 1938.
- GEORGE G. MERRILL, *Assistant Professor of Neurology*; A.B., Princeton University, 1932; M.D., Harvard University, 1937.
- STANLEY MILLER, *Associate in Medicine*; B.A., University of Pennsylvania, 1939; M.D., Jefferson Medical College, 1943.
- DONALD W. MINTZER, *Associate in Medicine*; B.S., University of Maryland, 1943; M.D., 1944.
- W. KEITH C. MORGAN, *Assistant Professor of Medicine*; M.B., Ch.B., University of Sheffield, England, 1953.
- ZACHARIAH R. MORGAN, *Assistant Professor of Gastroenterology*; M.D., University of Maryland, 1918.
- SAMUEL MORRISON, *Associate Professor of Medicine*; *Associate Professor of Gastroenterology*; A.B., Johns Hopkins University, 1925; M.D., 1929.
- THEODORE H. MORRISON, *Clinical Professor of Gastroenterology*; M.D., College of Physicians and Surgeons, 1915.
- S. EDWIN MULLER, *Assistant Professor of Medicine*; M.D., University of Maryland, 1937.
- JOSEPH E. MUSE, JR., *Associate in Medicine*; B.S., Mt. St. Mary's College, 1933; M.D., University of Maryland, 1937.
- JOHN ALFRED MYERS, *Instructor in Medicine*; B.E., Johns Hopkins University, 1927; M.E.E., 1933; M.D., 1935.
- JOSEPH CARL MYERS, *Assistant in Medicine*; A.B., Western Maryland College, 1939; M.D., University of Maryland, 1943.
- JAMES J. NOLAN, *Instructor in Medicine*; B.S., Loyola College, 1937; M.D., University of Maryland, 1941.
- ROBERT T. PARKER, *Associate Professor of Medicine*; A.B., Johns Hopkins University, 1941; M.D., 1944.
- H. RAYMOND PETERS, *Professor of Clinical Medicine*; B.A., Loyola College, 1918; M.D., University of Maryland, 1922.
- WALTER J. PIJANOWSKI, *Instructor in Medicine*; B.S., University of North Carolina, 1937; M.D., University of Maryland, 1939.
- ABRAHAM A. POLACHEK, *Associate in Medicine*; B.S., City College of New York, 1935; M.D., University of Texas, 1942.
- J. EMMETT QUEEN, *Associate in Medicine*; A.B., Loyola College, 1939; M.D., University of Maryland, 1943.
- M. KEVIN QUINN, *Assistant in Medicine*; M.B., University College, Dublin, Ireland, 1945.
- RAYMOND RANDALL, *Associate Professor of Clinical Investigation in Medicine*; D.V.M., U.S. College of Veterinary Surgeons, 1917.
- HOWARD F. RASKIN, *Associate Professor of Medicine and Head, Division of Gastroenterology*; B.A., Johns Hopkins University, 1945; M.D., University of Maryland, 1949.
- JOAN RASKIN, *Associate in Dermatology*; B.A., Goucher College, 1951; M.D., University of Maryland, 1955.
- JULIAN REED, *Instructor in Medicine*; B.S., University of Maryland; M.D., 1952.
- ROBERT ANDREW REITER, *Assistant Professor of Medicine*; A.B., Johns Hopkins University, 1928; M.D., 1932.
- SAMUEL T. R. REVELL, JR., *Professor of Medicine and Head, Division of Hypertension*; B.S., University of Georgia, 1933; M.D., University of Maryland, 1937.

- DANIEL ROBERTS, *Instructor in Dermatology*; A.B., Mercer University, 1953; M.D., Bowman-Gray School of Medicine, 1957.
- HARRY M. ROBINSON, JR., *Professor of Dermatology and Head, Division of Dermatology*; B.S., University of Maryland, 1931; M.D., 1935.
- RAYMOND C. VAIL ROBINSON, *Associate Professor of Dermatology and Assistant Chief of Dermatology Clinic*; B.S., University of Maryland, 1936; M.D., 1940; M.S., University of Pennsylvania, 1950.
- DONALD JAMES ROOP, *Assistant in Medicine*; B.A., Western Maryland College, 1936; M.D., University of Maryland, 1940; M.P.H., Johns Hopkins University, 1950.
- BENJAMIN ROTHFELD, *Assistant in Medicine*; B.A., University of Pennsylvania, 1941; M.S., 1942; M.D., Bowman-Gray School of Medicine, 1945.
- SEYMOUR RUBIN, *Assistant in Medicine*; A.B., Johns Hopkins University, 1946; M.D., University of Maryland, 1950.
- MILTON S. SACKS, *Professor of Clinical Medicine and Head, Division of Clinical Pathology*; B.S., University of Maryland, 1932; M.D., 1934.
- LEO SCHAMROTH, *Associate in Medicine*; M.B., B.Ch., University of Witwatersrand, Johannesburg, 1948.
- LEONARD SCHERLIS, *Associate Professor of Medicine and Head, Division of Cardiology*; A.B., Johns Hopkins University, 1942; M.D., 1945.
- SIDNEY SCHERLIS, *Assistant Professor of Medicine*; B.A., University of Pennsylvania, 1934; M.D., University of Maryland, 1938.
- WOODROW W. SCHIER, *Assistant Professor of Medicine*; A.B., Lawrence College, 1936; M.D., Columbia University, 1940.
- ALBERT JOSHUA SCHOCHAT, *Instructor in Gastroenterology*; B.S., New York University; M.D., University of Maryland, 1931.
- ADALBERT F. SCHUBART, *Associate Professor of Medicine and Head, Medical Outpatient Clinic, Head, Division of Arthritis*; M.D., University of Heidelberg, 1947.
- HARRY B. SCOTT, *Instructor in Medicine*; B.A., University of Virginia, 1943; M.D., University of Maryland, 1947.
- SAMUEL SEGALL, *Assistant in Medicine*; M.D., University of Jena, Germany, 1929.
- LAWRENCE M. SERRA, *Assistant Professor of Medicine*; Ph.G., University of Maryland, 1925; M.D., 1929.
- ALBERT SHAPIRO, *Assistant Professor of Dermatology*; B.S., University of Maryland, 1934; M.D., 1937.
- CHARLES E. SHAW, *Associate in Medicine*; B.S., University of Maryland, 1942; M.D., 1944.
- WILLIAM H. SHEA, *Assistant in Dermatology*; B.S., Loyola College, 1947; M.D., University of Maryland, 1951.
- JOSEPH SHEAR, *Assistant in Medicine*; B.S., University of Maryland, 1943; M.D., 1947.
- JEROME SHERMAN, *Associate in Medicine*; M.D., University of Western Ontario, 1941.
- MARGARET L. SHERRARD, *Assistant in Medicine*; B.A., Seton Hill College, 1945; M.D., University of Maryland, 1949.
- ELIZABETH BROWN SHERRILL, *Instructor in Medicine*; B.S., University of Maryland, 1938; M.D., 1941.
- ABRAHAM A. SILVER, *Assistant in Medicine*; M.D., University of Maryland, 1928.
- ROBERT T. SINGLETON, *Assistant Professor in Medicine*; B.S., University of Maryland, 1951; M.D., 1953.
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- JOHN T. BULKELEY, *Fellow in Medicine in Infectious Diseases*.
- N. DAVID CHARKES, *Fellow in Medicine in Radio-Isotopes*.
- ALBERT CIAMBOTTI, *Fellow in Medicine in Dermatology*.
- VICTOR CORONHO, *Fellow in Medicine in Endocrinology*.
- LILLIAN DARAGO, *Fellow in Medicine*.
- ROLF EWALD, *Fellow in Medicine in Arthritis*.
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 NORMAN L. MILLER, M.D., *Neurologist*.  
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 WILLIAM J. ADELMAN, JR., *Associate Professor*; B.S., Fordham University, 1950; M.S., University of Vermont, 1952; Ph.D., University of Rochester, 1955.  
 CHARLES A. BARRACLOUGH, *Associate Professor*; B.S., St. Joseph's College, 1949; M.S., Rutgers University, 1952; Ph.D., 1953.  
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- GABRIEL G. PINTER, *Assistant Professor*; M.D., University Medical School, Budapest, 1951.
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- RAJINDER S. SIKAND, M.D.
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- GEORGE ENTWISLE, *Professor of Preventive Medicine and Rehabilitation, and Head of the Department*; B.S., University of Massachusetts, 1945; M.D., Boston University, 1948.
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- FREDERICK J. BALSAM, *Associate in Physical Medicine and Rehabilitation*; B.S., College of the City of New York, 1931; M.D., University of Lausanne, Switzerland, 1938.
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- HARRIETT ARONSON, *Research Assistant Professor of Psychology*; B.A., Douglass College, 1951; M.S., Purdue University, 1953; Ph.D., 1957.
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- LEO H. BARTEMEIER, *Clinical Professor of Psychiatry*; B.A., Catholic University of America, 1914; M.A., 1916; M.D., Georgetown Medical School, 1920.
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- KAY DONAHOE, *Psychiatric Social Worker*; M.S.W., Catholic University of America, 1960.
- MYRON EICHLER, *Instructor in Psychiatry*; B.S., Tulane University, 1950; M.D., New York Medical College, 1954.
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- WILLIAM N. FITZPATRICK, *Associate in Psychiatry*; B.S., Mercer University, 1941; M.D., Emory University, 1944.
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- ROBERT G. GRENELL, *Professor of Neurobiology in Psychiatry*; B.S., College of the City of New York, 1935; M.S., New York University, 1936; Ph.D., University of Minnesota, 1943.
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- CYRUS F. HORINE, *Associate Professor of Surgery*; M.D., University of Maryland, 1919.
- HARRY CLAY HULL, *Professor of Clinical Surgery*; M.D., University of Maryland, 1932.
- HOLCOMBE H. HURT, JR., *Research Instructor in Thoracic Surgery*; B.S., Hampden-Sydney College, 1948; M.D., University of Virginia, 1952.
- BENJAMIN HERBERT ISAACS, *Assistant Professor of Otolaryngology*; A.B., Johns Hopkins University, 1932; M.D., University of Maryland, 1936.
- EVERETT D. JONES, *Assistant in Orthopedic Surgery*; B.A., Western Maryland College, 1938; M.D., University of Maryland, 1942.
- CLYDE F. KARNS, *Instructor in Surgery*; B.S., St. John's College, 1922; M.D., University of Maryland, 1927.
- FAYNE A. KAYSER, *Associate Professor of Otolaryngology*; B.S., University of West Virginia, 1925; M.D., University of Maryland, 1927.
- EDWARD ANDREW KITLOWSKI, *Clinical Professor of Plastic Surgery*; B.S., Bucknell University, 1917; M.D., Johns Hopkins University, 1921.
- HOWARD CALVIN KRAMER, *Instructor in Urology*; M.D., University of Maryland, 1951.
- FREDERICK T. KYPER, *Associate Professor of Otolaryngology*; M.D., University of Maryland, 1923.
- JOHN DOUGLAS LEBOUVIER, *Instructor in Orthopedic Surgery*; B.S., London University, 1952; M.B., 1952.
- EUGENE JOSEPH LINBERG, *Associate Professor of Thoracic Surgery*; A.B., Duke University, 1944; M.D., 1948.
- F. FORD LOKER, *Associate in Surgery*; B.S., University of Maryland, 1937; M.D., 1940.
- WILLIAM B. LONG, *Associate in Postgraduate Surgery*; B.S., Princeton University, 1940; M.D., Johns Hopkins University, 1943.
- WILLIAM DAWSON LYNN, *Instructor in Surgery*; B.A., University of Maryland, 1934; M.D., 1937.
- NICHOLAS MALLIS, *Instructor in Urology*; M.D., University of Maryland, 1948.
- ARLIE R. MANSBERGER, JR., *Associate Professor of Surgery*; M.D., University of Maryland, 1947.
- ISADORE MASERITZ, *Assistant Professor of Orthopedic Surgery*; M.D., University of Maryland, 1924.
- HOWARD BROOKS MAYS, *Assistant Professor of Urology*; M.D., University of Maryland, 1935.
- HOWARD B. McELWAIN, *Assistant in Surgery*; M.D., University of Maryland, 1919.
- WILLIAM RAYMOND MCKENZIE, *Assistant Professor of Otolaryngology*; M.D., College of Physicians and Surgeons of Baltimore, 1915.
- KARL FREDERICK MECH, *Associate in Surgery*; B.S., University of Maryland, 1932; M.D., 1935.
- THOMAS DICKSON MICHAEL, *Assistant in Otolaryngology*; M.D., Jefferson Medical College, 1949.
- MORITZ MICHAELIS, *Assistant Professor of Surgery*; Ph.D., University of Wurzburg, 1934.
- ELLIOTT MICHAELSON, *Instructor in Thoracic Surgery*; A.B., Johns Hopkins University, 1930; M.D., 1935.
- LYLE JORDAN MILLAN, *Associate in Urology*; M.D., George Washington University, 1921.
- JOHN E. MILLER, *Instructor in Surgery*; B.A., Pennsylvania State University, 1938; M.D., Jefferson Medical College, 1942.

- JOSEPH M. MILLER, *Associate in Surgery*; A.B., Columbia University, 1931; M.D., University of Minnesota, 1939.
- KIRK MOORE, *Assistant in Surgery*; A.B., Princeton University, 1941; M.D., Johns Hopkins University, 1944.
- JOHN DUER MOORES, *Instructor in Surgery*; B.S., Johns Hopkins University, 1931; M.D., University of Maryland, 1932.
- WILLIAM H. MOSBERG, JR., *Assistant Professor of Neurological Surgery*; B.S., University of Maryland, 1942; M.D., 1944.
- JAMES WHARTON NELSON, *Professor of Clinical Surgery*; A.B., St. John's College, 1918; M.D., University of Maryland, 1925.
- THOMAS R. O'ROURKE, *Professor of Otolaryngology*; M.D., University of Maryland, 1921.
- FRANK JOSEPH OTENASEK, *Instructor in Neurological Surgery*; A.B., Loyola College, 1933; M.D., Johns Hopkins University, 1937.
- A. GIBSON PACKARD, *Assistant in Orthopedic Surgery*; B.A., Johns Hopkins University, 1950; M.D., University of Maryland, 1954.
- CLARENCE W. PEAKE, *Associate Professor of Surgery*; M.D., University of Maryland, 1927.
- DANIEL JAMES PESSAGNO, *Professor of Clinical Surgery*; B.A., Rock Hill College, 1916; M.D., University of Maryland, 1920.
- PATRICK CAREY PHELAN, JR., *Associate in Surgery*; B.A., Loyola College, 1935; M.D., University of Maryland, 1942.
- ROSS Z. PIERPONT, *Assistant in Surgery*; B.S., University of Maryland, 1939; M.D., 1940.
- HARRY PRIMROSE PORTER, *Assistant in Otolaryngology*; A.B., Johns Hopkins University, 1939; M.D., 1943.
- JAMES RICHARD POWDER, *Instructor in Urology*; B.A., Johns Hopkins University, 1949; M.D., University of Maryland, 1953.
- JOHN M. REHBERGER, *Assistant in Otolaryngology*; B.S., Loyola College, 1940; M.D., New York Medical College, 1947.
- CHARLES A. REIFSCHNEIDER, *Clinical Professor of Traumatic Surgery*; M.D., University of Maryland, 1916.
- HERBERT E. REIFSCHNEIDER, *Associate in Surgery*; A.B., Johns Hopkins University, 1922; M.D., University of Maryland, 1927.
- WILLIAM BENJAMIN REVER, JR., *Associate in Surgery*; M.D., University of Maryland, 1950.
- BENJAMIN SUNDERLAND RICH, *Associate Professor of Otolaryngology*; B.A., Johns Hopkins University, 1923; M.D., University of Maryland, 1928.
- WILLIAM F. RIENHOFF, JR., *Assistant Professor of Surgery*; B.A., Cornell University, 1915; M.D., Johns Hopkins University, 1919.
- MARTIN ALBERT ROBBINS, *Associate in Urology*; A.B., Johns Hopkins University, 1939; M.D., University of Maryland, 1943.
- HARRY L. ROGERS, *Clinical Professor of Orthopedic Surgery*; M.D., University of Maryland, 1915.
- JOHN DAVID ROSIN, *Associate in Surgery*; B.S., Johns Hopkins University, 1938; M.D., University of Maryland, 1942; M.S., University of Minnesota, 1952.
- C. PARKE SCARBOROUGH, *Clinical Associate Professor of Plastic Surgery*; B.S., Pennsylvania State College, 1933; M.D., University of Maryland, 1937.
- JOHN F. SCHAEFER, *Instructor in Surgery*; Ph.G., University of Maryland, 1934; B.S., 1936; M.D., 1938.
- IRVING SCHERLIS, *Assistant in Urology*; A.B., Johns Hopkins University, 1940; M.D., University of Maryland, 1943.
- THEODORE ALLISON SCHWARTZ, *Assistant Professor of Otolaryngology*; Ph.G., University of Maryland, 1930; B.S., 1932; M.D., 1934.
- WILLIAM BOOTH SETTLE, *Associate in Surgery*; A.B., University of Pennsylvania, 1930; M.D., 1933.
- JOHN OLIVER SHARRETT, *Instructor in Neurological Surgery*; M.D., University of Maryland, 1952.
- ROBERT CLAY SHEPPARD, *Associate in Surgery*; B.S., University of Maryland, 1936; M.D., 1938.

- E. RODERICK SHIPLEY, *Associate in Surgery*; A.B., Johns Hopkins University, 1938; M.D., University of Maryland, 1942.
- ARTHUR GEORGE SIWINSKI, *Assistant Professor of Surgery*; A.B., Johns Hopkins University, 1927; M.D., University of Maryland, 1931.
- JOHN CRAIG STAUFFER, *Research Assistant Professor of Surgery*; A.B., Princeton University, 1949; M.D., University of Maryland, 1953.
- EDWIN HARVEY STEWART, JR., *Associate in Surgery*; M.D., University of Maryland, 1943.
- FREDERICK LOUIS STICHEL, JR., *Assistant in Otolaryngology*; B.S., University of Maryland, 1934; M.D., 1944.
- WILLIAM JOSEPH SUPIK, *Associate in Surgery*; B.S., University of Maryland, 1940; M.D., 1940.
- JOHN J. TANSEY, *Associate in Orthopedic Surgery*; A.B., Brown University, 1942; M.D., University of Maryland, 1945.
- RAYMOND K. THOMPSON, *Associate Professor of Neurological Surgery*; B.S., University of Maryland, 1937; M.D., 1941.
- MORRIS TISCHLER, *Research Associate in Surgery*; B.S., University of Maryland, 1950; M.H., 1952.
- T. JOSEPH TOUHEY, *Assistant in Surgery*; M.D., University of Maryland, 1923.
- I. RIDGEWAY TRIMBLE, *Professor of Clinical Surgery*; B.A., Princeton University, 1922; M.D., Johns Hopkins University, 1926.
- ALLEN FISKE VOSHELL, *Professor of Orthopedic Surgery and Head, Division of Orthopedic Surgery*; A.B., Johns Hopkins University, 1915, M.D., 1919.
- WILLIAM WALLACE WALKER, *Associate Professor of Surgery*; B.S., University of West Virginia, 1921; M.D., University of Maryland, 1923.
- ARTHUR THOMAS WARD, JR., *Associate in Otolaryngology*; A.B., Johns Hopkins University, 1933; M.D., 1939.
- ISRAEL HOWARD WEINER, *Instructor in Neurological Surgery*; B.A., Johns Hopkins University, 1949; M.D., University of Maryland, 1953.
- MILTON J. WILDER, *Assistant Professor of Orthopedic Surgery*; B.S., University of Maryland, 1933; M.D., 1939.
- DAVID REID WILL, *Instructor in Surgery*; M.D., University of Maryland, 1943.
- AUSTIN H. WOOD, *Assistant in Urology*, M.D., University of Maryland, 1914.
- JOHN M. WORKMAN, *Research Instructor in Thoracic Surgery*; B.A., Oxford University, England, 1944; B.M., B. Chem., University College Hospital, London, 1947.
- GEORGE HERSCHEL YEAGER, *Professor of Clinical Surgery*; B.S., University of West Virginia, 1927; M.D., University of Maryland, 1929.
- JOHN DAVID YOUNG, JR., *Professor of Urology and Head, Division of Urological Surgery*; B.A., Bridgewater College, 1938; M.D., University of Maryland, 1941.

### *Fellows, Research Fellows, and Research Assistants*

- PAULO P. MENDONCA, *Research Fellow in Urology*.
- ANDREW DE KOROSSY SZABO, *Research Assistant in Surgery*.
- GEORGE BENNETT THOMPSON, *Research Assistant in Thoracic Surgery*.



# Organization of the Curriculum and Courses of Instruction

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Anatomical Hall

## ▶ ANATOMY

*Professors:* FIGGE (HEAD OF DEPARTMENT), BRANTIGAN, KRAHL, NAUTA.

*Associate Professors:* LEVEQUE, MECH, WALKER.

*Assistant Professors:* BOUDREAU, CRISPENS, SAUNDERS, SETTLE.

*Research Assistant Professor:* RAMON-MOLINER.

*Instructors:* ATKINS, CARSKI, HUDSON, MARTIN, MCFADDEN.

*Associates:* BOWIE, PIERPONT, REIFSCHNEIDER.

### *Anat. 101. Gross Anatomy. (272 hours)*

First year, first semester. This course gives the student an opportunity to develop a basic concept of the morphology of the human body. It is closely interwoven with the study of neuroanatomy, histology, and embryology, and some time is devoted to roentgen anatomy. The entire human body is dissected.

### *Microanat. 101. Microanatomy. (178 hours)*

First year, first semester. This course presents an integrated study of the histology and embryology of the human body. An attempt is made to correlate this with gross anatomy as well as other subjects in the medical curriculum. Special emphasis is placed on the dynamic and functional aspects of the subject.

### *Neuroanat. 101. Neuroanatomy. (116 hours)*

First year, first semester. The study of the detailed anatomy of the central nervous system is coordinated with structure and function of the entire nervous system. The dissection of the human brain and the examination of stained microscopic sections of various levels of the brain stem are required.

### *Anat. 103. Clinical Anatomy. (96 hours)*

Second year, second semester. The course is designed to bridge the gap between basic anatomy and clinical or applied anatomy. The study of surface anatomy is correlated with physical diagnosis. Students have an opportunity to perform a detailed anatomical dissection with emphasis upon clinical application. Laboratory fee, non-medical students, \$20.00.

## FOR GRADUATES

The graduate degrees offered by the Department of Anatomy are the Master of Science and the Doctor of Philosophy.

### *Anat. 201. General Anatomy of the Human Body. (8)*

Same course as Anat. 101, but on a more advanced level. It can be taken by graduate as well as postgraduate students. Laboratory fee, \$25.00.

### *Anat. 203. Practical Anatomy. (4)*

Same course as Anat. 103, but on a more advanced level. Laboratory fee, \$20.00.

### *Anat. 204. Fetal and Infant Anatomy. (2)*

Fifteen periods of three hours each, every Thursday from 2:00 to 5:00 p.m. during the second semester. This course is open to graduate students and postgraduates interested in Pediatrics.







*Anat. 205. Research in Anatomy.*

Maximum credits, 12 per semester. Research work may be taken in any one of the branches of Anatomy.

*Neuroanat. 201. Human Neuroanatomy. (4)*

Same course as Neuroanat. 101, but with additional work of a more advanced nature. Laboratory fee, \$10.00.

## ► ANESTHESIOLOGY

*Professor:* HELRICH.

*Associate Professor:* HOLLINGSWORTH AND STAFF.

During the first two years, the Department of Anesthesiology presents several lectures in the courses taught by the various pre-clinical departments. These lectures are intended to illustrate the application of the basic sciences to the clinical practice of anesthesiology. Emphasis is placed upon the physiologic and pharmacologic aspects of preanesthetic medication, choice of anesthesia and management of patients during surgery.

*Anes. 101. Introduction to Anesthesiology.*

Third year. The third year class is given a series of one hour lectures dealing with preoperative preparation and inhalation, local and spinal anesthesia. An effort is made to correlate the basic sciences with their clinical application.

*Anes. 102. Introduction to Anesthesiology.*

Fourth year. Each senior student spends two weeks in the operating rooms of the University Hospital or one of its affiliated hospitals administering anesthesia. Informal group meetings are held to emphasize factors affecting the anesthetic management of patients and to discuss pertinent anesthetic problems. The students also attend the regularly scheduled staff conferences in Anesthesiology.

## ► ART AS APPLIED TO MEDICINE

WILLIAM JOHN T. AUSTIN. . . . . *Supervisor of Medical Art*

CARL DAME CLARKE. . . . . *Associate Professor of Art as Applied to Medicine*

THOMAS M. STEVENSON, JR. . . . . *Instructor in Art as Applied to Medicine*

This Department is maintained to supply visual teaching aids in the form of lantern slides, graphic charts, medical drawings, and a limited number of motion pictures showing clinical and surgical techniques.

## ► BIOLOGICAL CHEMISTRY

*Professor:* VACANT

*Associate Professors:* BESSMAN (PART TIME), EMERY.

*Assistant Professor:* DUDA AND STAFF.

*Biochem. 101. Principles of Biochemistry. (240 hours)*

First year, second semester. Basic chemical and physical chemical aspects of biochemistry are presented both in lectures and in labora-

tory experiments. Intermediary metabolism, metabolic regulation and control, and the physiological secretions and excretions of mammalian cells are considered and the biochemical lesions in nutritional and metabolic diseases are characterized.

#### FOR GRADUATES

Graduate degrees offered by the Department of Biological Chemistry are the Master of Science and Doctor of Philosophy.

***Biochem. 201. Principles of Biochemistry. (8)***

Same course as Biochem. 101 with additional assignments in biochemical literature. Laboratory fee, \$20.00.

***Biochem. 202. Special Topics in Biochemistry. (1, 1)***

Prerequisite, Biochem. 101 or 201. Reading assignments and written summaries of the classical research literature in biochemistry.

***Biochem. 204, 205. Seminar. (1, 1)***

First and second semesters. Reports on the current literature or on research in progress.

***Biochem. 206. Enzymes and Metabolism. (3)***

First semester. Three lectures per week on enzyme kinetics and intermediary metabolism. Prerequisite, Biochem. 201.

***Biochem. 207. Enzymes and Metabolism Laboratory. (3)***

First semester. Three three-hour laboratory periods per week on radioactive tracer methods, cell fractionation, enzyme preparation and assay procedures. To be taken concurrently with Biochem. 206.

***Biochem. 208. Biochemical Preparations. (1-4)***

Credit according to work assigned. The preparation of biochemicals by methods illustrating useful techniques for the isolation and purification of natural products.

***Biochem. 399. Research.***

Maximum credits, 12 hours per semester.

## ► BIOPHYSICS

*Professor:* MULLINS.

*Associate Professor:* SJODIN.

The Department of Biophysics offers graduate courses of study leading to the degrees of Master of Science and Doctor of Philosophy. The study programs are flexible and depend on the preparation and interests of the student. Detailed requirements are available from the Department of Biophysics.

It is recommended that students studying for the degree of Doctor of Philosophy select a minor in either physics, chemistry, or mathematics.

#### FOR GRADUATES AND ADVANCED UNDERGRADUATES

***Biophys. 100. Introduction to Biophysics. (3)***

First semester. Three lectures a week. Prerequisites, Chem. 1, 3,

Phys. 10, 11, Math. 18, 19. An introduction to the study of living systems applying the methods of physics and chemistry. The cell as a physical-chemical system and experimental methods for investigation, nerve impulse conduction and excitation, muscle contraction, the interaction of radiation with living material. (Mullins, Sjodin.)

*Biophys. 101. Physical Chemistry of Membranes. (2)*

Second semester. Two lectures a week. Prerequisites, Chem. 1, 3, Phys. 10, 11, Math. 18, 19. Diffusion in and through membranes developed from first principles with special reference to problems of ion transport in biological membranes. (Sjodin.)

*Biophys. 102. Biophysics of Radiation. (2)*

Second semester. Two lectures a week. Prerequisites, Chem. 1, 3, Phys. 10, 11. An advanced study of the interaction of radiation with living matter and with molecules of biological interest. (Mullins.)

*Biophys. 103. Laboratory Techniques in Membrane Biophysics. (3)*

First semester. One lecture and one laboratory period a week. Prerequisites, Biophys. 100, or Biophys. 101, or consent of the staff. Training in the use of radioactive isotopes, radioactive counting equipment, and bio-electric measuring instruments applied to the study of membranes. (Mullins, Sjodin.)

*Biophys. 104. Seminar in Biophysics. (1)*

Second semester. Prerequisites, Biophys. 100, Biophys. 101, or consent of the staff. Seminars on various biophysical topics given by the staff, graduate students, and guest speakers.

FOR GRADUATES

*Biophys. 200. Advanced and Theoretical Biophysics. (3)*

First semester. Three lectures a week. Prerequisites, Biophys. 100 or consent of staff. An advanced and critical analysis of experimental findings in terms of biophysical theory. (Mullins, Sjodin.)

*Biophys. 201. Advanced Membrane Physics. (2)*

Second semester. Two lectures a week. Prerequisites, Chem. 1, 3, Phys. 10, 11, Math. 20, 21. The subject matter of Biophys. 101 at an advanced level for students planning research on biological membranes. (Sjodin.)

*Biophys. 202. Research in Biophysics. (3-6)*

First and second semesters. Required of students planning to take the Master of Science degree or the Doctor of Philosophy degree in Biophysics. (Staff.)

## ► MEDICINE

*Professors:* WOODWARD (HEAD OF DEPARTMENT), CAREY, KRAUSE, MERLIS, T. MORRISON, REVELL, ROBINSON, JR., SACKS, V. SMITH, VAN BUSKIRK.

*Associate Professors:* ANDERSCH, BERESTON, BUBERT, CONNOR, COTTER, EASTLAND, ELLINGER, ELLIS, GUNDRY, HETHERINGTON, KARNS, LISANSKY, MCCRUMB, S. MORRISON, PARKER, RASKIN, HOWARD; R. C. V. ROBINSON, L. SCHERLIS, SCHUBART, W. SMITH, SPICER, SPURLING, STOREY, TIGERTT, WISWELL, WORKMAN.

*Assistant Professors:* ANDRES, BEACHAM, BORGES, CARROLL, CHINARD, COHEN, EBELING, ENTWISLE, FORT, FREEMAN, GREISMAN, HORNICK, JACOBSON, LEACH, LEGUM, LERNER, LEVY, G. MCLEAN, MERRILL, MORGAN, MULLER, REITER, S. SCHERLIS, SCHIER, SERRA, SHAPIRO, SINGLETON, S. SMITH, SWISHER, TEITELBAUM, WISSEMAN, AND STAFF.

### *Med. 102. Clinical Clerkship in Medicine.*

Third year. This course consists of a clinical clerkship on the medical wards of the University Hospital for a period of 9 weeks. Students are responsible, under supervision, for the history, physical examination, laboratory examinations and progress notes of assigned cases. They also attend ward rounds and conferences in general medicine with the Resident Staff, Attending Physicians, and Chief of Service. For an additional 3 weeks, students are assigned to the Baltimore City Hospitals for work in the General Medical Outpatient Department. They also serve as clinical clerks on the Chronic Disease Wards and attend ward rounds and teaching conferences in General Medicine, Tuberculosis, Neurology and Radiology.

### *Med. 103. The Principles of Medicine. (47 hours)*

Third year. A series of lectures in General Medicine, Neurology, Clinical Medicine and Medical Jurisprudence are given to the entire junior class.

### *Med. 104. Advanced Clinical Clerkship in Medicine.*

Fourth year. Clinical clerkship on the medical wards of University Hospital and Mercy Hospital, for 4 weeks. An additional 4 week period is spent in the Medical Outpatient Department where instruction is given in General Medicine and the medical specialties. During this tour the senior students make home visits on selected patients, participate in the workup of chronically ill patients at the Montebello Chronic Disease Hospital and attend consultative rounds in cardiology, infectious diseases, gastroenterology, arthritis, radioisotopes, neurology, hematology, endocrinology and pulmonary diseases on the wards of the University Hospital.

Selected students who have completed the junior year may take Medicine 104 during the summer months. Application should be made to the Department Head prior to March 1 of the current year. Those students completing the course successfully will be assigned elective time during the academic year. This program is designed to foster research for promising students and to provide for more intensive training in the fundamentals of clinical medicine.



## SUMMER FELLOWSHIPS

Students who have completed their junior year are encouraged to seek additional training during the summer months preceding their senior studies. This training may be obtained in one of several ways. A limited number of students are appointed to Clinical Clerkships on the Medical Wards of the University Hospital. In these positions, they are responsible, under supervision, for the history, physical examination, laboratory studies and progress notes of assigned cases.

In addition, certain of the medical subspecialty divisions provide specialized training for students as Summer Fellows during the summer months. The applicant is encouraged to apply directly to the Division Head. These fellowships enable the student to become acquainted with the various specialized diagnostic and research techniques, the clinical problems and therapeutic regimens peculiar to each of the medical subspecialties. Summer Fellowships are available in the following Divisions: Cardiology, Clinical Pathology (2 appointments), Dermatology (2 appointments), Endocrinology (2 appointments), Gastroenterology, Renal-Hypertension (2 appointments), Infectious Diseases (2 appointments), Legal Medicine, Arthritis, Neurology and Radioisotopes (1 appointment), Pulmonary Diseases and Clinical Physiology (2 appointments). Interested applicants should contact the respective Division Head prior to January 1 of the year in which the fellowship is desired. In many instances a fellowship award is made providing remuneration for two or three of the summer months.

## POSTGRADUATE FELLOWSHIPS

These are available in the various specialties of Medicine. For details see specific division.

The Department of Medicine, for administrative purposes, is divided into eleven Divisions. Each of these Divisions participates in the major courses taught by the Department. In addition, a number of specialized courses and postgraduate fellowships are offered by the Divisions.

*Division of Arthritis*

*Doctors:* SCHUBERT (HEAD OF DIVISION), KOCHMAN, SCHROEDER, AND STAFF.

*Med. 105. Division Rounds.*

Third year. Elective.

*Med. 105a. Outpatient Clinic.*

Fourth year. Elective. Weekly arthritis outpatient clinics and attendance at weekly arthritis seminar and rounds.

*Division of Cardiology*

*Doctors:* L. SCHERLIS, (HEAD OF DIVISION), ANTLITZ, DEMBO, LEACH, LEE S. SCHERLIS, SINGLETON, GONZALEZ, TOWNSHEND, VAN LILL, III, AND STAFF.

*Physiol. 101. Principles of Physiology.*

First year. Lectures and demonstrations in the Electrical Activity of the Heart in collaboration with the Department of Physiology.

*ID. 3. Physical Diagnosis.*

Second year, second semester. The Division of Cardiology participates in presenting this course.

*Med. 106. Electrocardiology. (16 hours)*

Third and fourth years. Electives. This is an introductory course consisting of illustrated group lectures and exercises.

*Med. 106a. Outpatient Clinic and Divisions Rounds.*

Fourth year. Elective weekly clinic and attendance at rounds.

## FELLOWSHIPS

These are available to selected postgraduate applicants. The Fellow participates in the activities of the Division, including cardiac catheterization, by dilution and other physiologic studies. The fellowship begins July 1st of each year. A financial stipend is provided. Application is made through the Head of the Division and must be completed by October of the preceding year.

*Division of Clinical Pathology*

Professor: SACKS (HEAD OF DIVISION), *Doctors:* ANDERSCH, FUNK, JIJI, S. MILLER, SPURLING, AND STAFF.

*Med. 101. Clinical Pathology. (128 hours)*

Second year. The course is designed to train the student in the performance and interpretation of the fundamental laboratory procedures used in clinical diagnosis. During the first semester the basic techniques of hematology as well as clinical aspects of blood diseases are taught. Blood group immunology in relation to transfusion is also covered. In the second semester the performance and interpretation of tests used in the diagnosis of renal, hepatic, gastric, pancreatic and metabolic diseases are considered. A review, with clinical applications, of acid-base balance and electrolyte disturbances is included. Methods of examination of cerebrospinal fluid, transudates and exudates are taught. Elements of clinical parasitology complete the work in this semester.

Each student provides his own microscope and blood counting equipment. A completely equipped locker is provided for each student.

*Med. 102a. Advanced Clinical Pathology. (8 hours)*

Third year. Seminar discussions of diagnostic laboratory procedures in selected diseases are given during the Medicine quarter. Each student is assigned a completely equipped locker adjacent to the wards for use during the clinical clerkships. Microscope and blood counting equipment must be provided by the student.

## POSTGRADUATE FELLOWSHIPS

Two full-time clinical and research fellowships in hematology are available to applicants who have had a minimum of one year internship. A financial stipend is provided. Application should be made to the Head of the Division.

*Division of Dermatology*

Professor: H. M. ROBINSON, JR. (HEAD OF DIVISION), *Doctors:* BACHARACH, BERESTON, BUNDICK, M. COHEN, ELLIS, HOLLANDER, RASKIN, ROBERTS, R. C. V. ROBINSON, SHAPIRO, STRAHAN, AND STAFF.

*Med. 107. Introduction to Dermatology.*

Third year. Students are given assigned reading on the more common skin eruptions. Nine two hour clinical sessions are held for each quarter of the junior class. Individual instruction is given by one of the senior staff members emphasizing the pertinent aspects of differential diagnosis.

*Med. 108. Practical Exercises in Dermatology.*

Fourth year. Groups of 12 students spend 20 hours in the out-patient department where they are given individual instruction in the diagnosis and treatment of cutaneous lesions. Emphasis is laid on the relationship of various eruptions to systemic conditions. Instruction is given in mycologic technique.

*Med. 108a.*

Students who take dermatology for the senior elective receive special training in clinical dermatology and the basic sciences as applied to dermatology.

## GRADUATE TRAINING

The Division of Dermatology is approved by the American Board of Dermatology for a three year period of training which is required by the Board. This consists of instruction in the basic sciences (mycology, bacteriology, histopathology, chemistry, and physiology), and instruction in clinical dermatology. Emphasis is placed on the relationship of cutaneous lesions to systemic diseases. Residents and Fellows spend a part of the training period at the Rosewood School for Retarded Children, the Baltimore City Hospitals, and in the private offices of the members of the staff. Temporary membership in the dermatologic societies is provided under the sponsorship of the Division Head.

*Division of Endocrinology and Metabolism*

*Doctors:* CONNOR (HEAD OF DIVISION), WISWELL, WORKMAN, AND STAFF.

*Endocrine Clinic—Conference and Rounds.*

Fourth year. Elective. Patients with a variety of Endocrine-Metabolic Diseases are seen in the Out-Patient Department every Monday afternoon from 1:30-4:00 p.m. This is followed by a Conference in which clinical case material is presented for discussion with staff members and students actively participating. Every Friday afternoon weekly wards rounds are held.

## RADIOACTIVE ISOTOPE LABORATORY

(DR. WORKMAN, HEAD)

*Physiol. 101. Principles of Physiology.*

First year. In cooperation with the Department of Physiology, two orientation lectures and 8 laboratory sessions of 4 hours each are devoted to the discussion and demonstration of radioisotope techniques useful in medicine.

## 82 *Gastroenterology, Hypertension & Infectious Diseases*

### *Pharmacology 201.*

Second year. In cooperation with the Department of Pharmacology, a portion of one laboratory session is utilized to demonstrate the accuracy of a radioisotope method of estimating thyroid function.

#### POSTGRADUATE FELLOWSHIPS

Postgraduate Fellowships are available to applicants who have completed internship and at least one year of residency training. Opportunities for active participation in clinical and research activities are available. Independent research investigations are encouraged. A financial stipend is provided. Three full-time fellowship positions are available.

### *Division of Gastroenterology*

*Doctors:* RASKIN (HEAD OF DIVISION), EBELING, S. MORRISON, SCHOCHAT, V. SMITH, AND STAFF.

#### *ID. 2. Introduction to Clinical Medicine.*

Second year. The Division of Gastroenterology participates in the presentation of this course.

### *Division of Hypertension and Renal Disease*

*Professor:* REVELL, JR. (HEAD OF DIVISION), *Doctors:* BORGES, ENTWISLE, YOUNG, AND STAFF.

#### *Med. 110. Conferences on Hypertension.*

Fourth year. Elective. Conferences on pathologic-physiology of hypertensive and renal disorders, sites of action of antihypertensive drugs, methods for screening patients with hypertension and therapeutic methods in various disease processes.

#### *Med. 111. Outpatient Clinic and Division Rounds.*

Fourth year. Elective. Weekly clinics and attendance at rounds.

#### POSTGRADUATE FELLOWSHIPS

The Division sponsors two Fellows who receive training in pathologic-physiology of hypertensive states, techniques of screening patients and management of hypertensive renal problems. In addition, he participates actively in investigative problems. A financial stipend is provided.

### *Division of Infectious Diseases*

*Doctors:* MCCRUMB, (HEAD OF DIVISION), HORNICK, M. J. SNYDER, AND STAFF.

#### POSTGRADUATE FELLOWSHIPS

The Division sponsors two Fellows who receive instruction in laboratory techniques and clinical investigation. Fellows participate in all functions of the Division, including collaboration in investigative problems. A financial stipend is provided. Application is made through the Head of the Division.



## *Division of Neurology*

*Professor:* VAN BUSKIRK (HEAD OF DIVISION), *Doctors:* COTTER, HULFISH, LERNER, MERLIS, MERRILL, TEITELBAUM, AND STAFF.

### *Med. 112. Introduction to Clinical Neurology. (15 hours)*

Second year.. Lectures in neurologic diagnosis are presented, stressing correlation of anatomy and physiology of the nervous system with clinical neurology.

### *ID. 3. Physical Diagnosis.*

Second year, second semester. The Division participates in presenting this course.

#### POSTGRADUATE FELLOWSHIPS

The Division sponsors fellowships in Clinical Neurology including training in related basic sciences such as neurophysiology, neuroanatomy, neuropathology and neuroradiology. A financial stipend is provided.

## *Division of Physical Diagnosis*

*Professor:* WOODWARD (ACTING HEAD OF DIVISION), AND STAFF.

### *ID. 2. Introduction of Clinical Medicine.*

Second year. The Division participates in presenting this course.

### *ID. 3. Physical Diagnosis. (32 hours)*

Second year, second semester. This course implements ID. 2. and provides the student with bedside instruction in physical diagnosis. Small tutorial groups are formed, each under the direction of an instructor. In the first five weeks, experience in physical examination of normal individuals is given one afternoon weekly. During the subsequent 12 weeks, students become acquainted with abnormal signs through examination of hospitalized patients. For the first five of these 12 weeks the Division of Cardiology gives instruction in the physical examination of the heart. Thereafter, sections are assigned in rotation to the Division of Neurology and the Department of Pediatrics for instruction in these specialties.

## *Division of Pulmonary Diseases*

*Doctors:* SPICER (HEAD OF DIVISION), DUVALL, MORGAN, STOREY, AND STAFF.

### *Med. 113. Clinical Clerkship in Pulmonary Diseases.*

Third year. This 3 week period of training is given on the chest ward service and in the chest clinic. Students are assigned hospital patients whom they work up, follow, and present at rounds and at conference. Clinic and bedside teaching emphasizes development of the technique of the medical examination which is correlated with x-ray study. The seminars and conferences emphasize an understanding of the basic processes involved in respiratory health and disease.

## 84 Microbiology

Fourth year. Elective. The chest clinic provides an opportunity for clinical and physiologic study of patients with chronic bronchopulmonary disease, especially chronic bronchitis and emphysema. Emphasis during this elective period is placed on development of understanding of principles and techniques of testing of cardio-pulmonary function testing.

### STUDENT FELLOWSHIP

The service offers four such positions for the support and supervision of students throughout their medical school career. These fellowships will provide special graded instruction and experience in research methodology, epidemiology, physical diagnosis, clinical chest disease and pulmonary physiology. The individual student, during his medical school career, will gradually be introduced to clinical medical research so that he may plan and complete a research project during this period.

## ► MICROBIOLOGY

*Professor:* WISSEMAN (HEAD OF DEPARTMENT).

*Associate Professor:* EYLAR, SMITH

*Assistant Professors:* GANGAROSA, LEVIN, MCCRUMB, MYERS, ROSENZWEIG, SNYDER, AND STAFF.

### *Microbiol. 101. Medical Microbiology and Immunology. (180 hours)*

Second year, first semester. This course is intended to introduce the student to basic concepts of microbial agents and immunologic mechanisms necessary to understand infectious diseases, public health and diseases of immunologic origin. Properties of microorganisms are considered in relation to pathogenesis of infections, mechanisms of tissue damage and host defense mechanisms. Bacterial, fungal, viral and rickettsial agents are studied in both lecture and laboratory.

### FOR GRADUATES

The Department of Microbiology offers the degree of Doctor of Philosophy and encourages especially those who wish to enroll in the combined M.D.-Ph.D. program. While the degree of Master of Science may be offered in special instances, priority for research facilities will be given aspirants to the Ph.D. degree. These courses are available only by prior arrangement with the Staff.

*Microbiol. 201. Medical Microbiology and Immunology. (8)*  
First semester. Four lecture hours and eight hours in laboratory and group conferences per week. Laboratory fee, \$10.00. This course, intended for the serious advanced student of medical microbiology, is built upon the framework of Microbiol. 101 supplemented with advanced readings and laboratory work.

*Microbiol. 203. Microbial Physiology. (3)*

Second semester, alternate years. Three lectures per week supplemented with demonstrations. By consent of instructor.

*Microbiol. 205. Cytology and Genetics of Microorganisms. (2)*

Second semester, alternate years. One lecture and one laboratory per week. Laboratory fee, \$10.00. Registration by consent of instructor.

*Microbiol. 206, 207. Seminar. (1, 1)*

First and second semesters. One session per week. Graduate students, staff and guests participate in comprehensive and critical reviews of subjects of special interest or pertinent to graduate training program.

*Microbiol. 208. Medical Mycology. (2)*

Second semester, alternate years. One lecture and one laboratory per week. Laboratory fee, \$10.00. Registration by consent of instructor.

*Microbiol. 209. Special Topics.*

(Permission and credit arranged individually.) This course provides the opportunity for the graduate student to pursue under supervision subjects of special interest not offered in other formal courses.

*Microbiology 210. Advanced Virology and Rickettsiology Lecture (3 hrs.)*

This course considers the general properties of viruses and rickettsiae, methods for studying them and finally concentrates on agents of medical importance. Special emphasis is placed on the host-parasite relationship, characterization of the various viral and rickettsial agents and on biological and ecological factors. Registration is by permission of instructor only. The course will be given on the average on alternate years in the Spring semester. There are two weekly sessions of 90 minutes each. Prerequisite: Microbiology 201 or equivalent.

*Microbiology 211. Virology and Rickettsiology Laboratory (2 hrs.)*

This course is the laboratory counterpart of Microbiology 210. It is designed to familiarize the student with the major techniques for the study of virus and rickettsial agents, and to give him first hand experience with a variety of the more common agents. Registration is by permission of instructor only. Because of the limited facilities and the nature of the work, it may be necessary to restrict registration in this course according to the following priority: students majoring in medical microbiology, then students minoring in microbiology and, finally, others. The laboratory consists of two formal sessions per week; however, the nature of the work frequently requires additional participation throughout the week.

*Microbiol. 399. Research (for thesis problem).*

Maximum credits, 12 hours per semester.

## ► OBSTETRICS & GYNECOLOGY

*Professors:* HASKINS (HEAD OF DEPARTMENT), KALTREIDER.

*Clinical Professors:* REESE, SIEGEL.

*Associate Clinical Professors:* CORNBROOKS, MCNALLY.

*Assistant Professors:* MIDDLETON, MUNFORD.

*Assistant Clinical Professors:* BRADY, DAVIS, DIGGS, DIXON, MORRIS, MORRISON, SEEGAR, AND STAFF.

### *Ob-Gyn. 101. Clinical Clerkship in Obstetrics and Gynecology.*

Third year. Students are assigned to Obstetrics and Gynecology for a period of six weeks. As clinical clerks, they participate in the original diagnostic studies, pelvic surgical procedures and postoperative care of hospitalized patients.

Daily rounds, seminars and departmental conferences with the attending staff and house officers aid the student in the interpretation and correlation with his observations, diagnoses and the several therapeutic regimens.

Specific instruction is provided in pathology, basic science and endocrinology as related to obstetrics and gynecology. Obstetrical manikin exercises, prenatal examination, and gynecologic outpatient care are accomplished in the Outpatient Department.

### *Ob-Gyn. 102. Advanced Clinical Clerkship in Obstetrics and Gynecology.*

Fourth year. Students are assigned to Obstetrics and Gynecology for a period of four weeks. The student rotates through the accident room, delivery floor and maternity division. He participates in daily rounds, deliveries, postpartum care, and seminars. Specific instruction in cancer, obstetrical complications, and pelvimetry is provided.

## ► OPHTHALMOLOGY

*Professor:* RICHARDS (HEAD OF DEPARTMENT).

*Associate Professors:* FOX, AND STAFF.

*Instructors:* GOLDBERG, JAIN.

### *Ophthal. 101. Introduction to Ophthalmology.*

Third year. A lecture course for the entire class covers the fundamentals of ophthalmology. Weekly section work, with emphasis on the use of the ophthalmoscope, includes discussion periods, demonstrations and clinics.

### *Ophthal. 102. Clinical Ophthalmology.*

Fourth year. Ward rounds, demonstrations, discussion periods, and clinics in diseases of the eye.

## ► PATHOLOGY

*Professors:* FIRMINGER (HEAD OF DEPARTMENT), FISHER, KOTIN, STOWELL, WAGNER.

*Associate Professors:* FREIMUTH, LINDENBERG, MERKEL, REIMANN, SCHULTZ, WEINBERG, WOOD, WRIGHT.

*Assistant Professors:* BURKHART, GUERIN, KING, NAIB, PETTY, RASMUSSEN, AND STAFF.



*Path. 101. General, Systemic and Experimental Pathology. (364 hours)*

Second year. This course starts with the study of the basic principles of pathology and progresses with the study of diseases of the various organ systems. Teaching is chiefly by the case method using fresh and fixed autopsy cases but also utilizes gross museum specimens and a set of prepared selected histological slides. Students assist in the performance of autopsies in small groups, prepare final protocols and present the findings and interpretation of the cases to others in the class.

Included in this course are a series of experiments to illustrate the dynamics of disease processes culminating in an original experiment or literary research project with a final written report.

*Path. 102. Correlative Medical Pathology. (9 hours)*

Third year. This course is given in collaboration with the Department of Medicine and consists of a series of conferences with small groups of students, an internist and a pathologist. An illustrative clinical case is used as the base for discussion of a few selected diseases with particular emphasis on correlating the anatomical and functional changes with the clinical disease.

*Path. 103. Surgical Pathology. (16 hours)*

Fourth year. This course consists of a series of rather informal lectures and discussions of the pathology of various surgical conditions with small groups of students using colored lantern slides, gross museum specimens, a set of prepared microscopic slides and current gross surgical specimens.

*Path. 104. Clinical Pathological Conferences. (36 hours)*

Third and fourth years. These exercises are held in collaboration with various clinical departments. Histories from highly selected cases are circulated prior to the conference. Diagnoses are submitted and the differential diagnoses are discussed. The pathological findings are then presented and correlated with the clinical disease.

*Path. 105. Elective Pathology. (115 hours)*

Fourth year. Students may spend a month continuously in pathology as an assistant to a resident participating in autopsies, examination of surgical specimens and contributing to discussions in the various conferences of the Department.

FELLOWSHIPS (AFTER SOPHOMORE YEAR)

Students may be selected for summer fellowships in pathology or in certain instances drop out of the regular curriculum for a year and devote their entire time to pathology. Their activities are either of two types, one consists of serving as externs in pathology, the other is directed more toward research with students participating in research projects under the supervision of a Staff member.

*Division of Neuropathology*

Doctors: WAGNER (HEAD OF DIVISION), MOULTON, AND STAFF.

A series of lectures, demonstrations and case studies relating to the

problems of neurologic disease is integrated into the second year course in pathology. Additional courses offered include:

*Path. 106. Correlative Neuropathology. (4 hours)*

Third year. This course is given in collaboration with the Division of Neurology. Presentation of the history of an illustrative case is done by the student. This is followed by group discussion and by the presentation of neurologic and pathologic findings by the faculty.

*Path. 107. Advanced Neuropathology.*

Elective course open to third and fourth year students and Doctors of Medicine. One hour per week, second semester. Includes review of practical anatomy, discussion of pathologic principles as applied to the central nervous system, staining techniques and a thorough study of a selected group of illustrative cases with emphasis on clinical correlation and microscopic appearance. Seminar discussions and papers presented by students are included. Offered annually for ten acceptable students.

### *Division of Forensic Pathology*

*Doctors:* FISHER (HEAD OF DIVISION), FREIMUTH, GUERIN, KING, LINDENBERG, LOVITT, JR., PETTY, AND STAFF.

#### FOR GRADUATES

In addition to teaching basic forensic pathology in the second year course this division offers a number of other courses including a graduate program in toxicology leading to the degrees of Master of Science and Doctor of Philosophy in Toxicology.

*Leg. Med. 201. Legal Medicine. (1)*

Third year or graduate students. This course consists of one hour of lecture for each of 12 weeks and 4 hours of assigned reading.

*Leg. Med. 202. Toxicology. (10)*

Two hours lecture, 8 laboratory hours per week for one year.

*Leg. Med. 203. Gross Pathologic Anatomy as Related to Toxicology. (2)*

Two hours per week for one year.

*Leg. Med. 204. Research in Toxicology Leading to Preparation of a Thesis for the M.S. (6)*

Minimum credits, six.

*Leg. Med. 205. Research in Toxicology Leading to Preparation of a Thesis for the Ph.D. (30)*

## FELLOWSHIPS

A limited number of physicians or students with a minimum of one year training in Pathologic Anatomy are appointed as Research Fellows for training and research in medicolegal pathology.

## ► PEDIATRICS

*Professors:* BRADLEY (HEAD OF DEPARTMENT), BESSMAN, FINKELSTEIN, HEPNER.

*Associate Professors:* GLICK, F. B. SMITH.

*Assistant Professors:* BALDWIN, CLEMMENS, COFFIN, FINEMAN, GLASER, GOOD, GORTEN, JANTZ, JENSEN, MOSSER, S. SCHERLIS, SEABOLD WALKER, WEAVER, WELLS.

*Associates:* HOWELL, MANSDORFER, MCCRUMB, SPRAGINS, AND STAFF.

### *Ped. 101. Inpatient Clerkship.*

Third year. Students are assigned as clinical clerks for a period of six weeks to the pediatric wards of the University and Mercy Hospitals. They are responsible for patient care and work with house staff and instructors in planning the workup and treatment of assigned patients. Ward rounds are attended three times weekly. The students are assigned tutors who meet with their students three times weekly.

Daily conferences are held covering x-ray diagnosis, cardiology, journal review, chart conferences, neo-natal mortality, case discussions and metabolic diseases. Discussions cover concepts of the premature and neonate, therapeutic management of pediatric patients, nutritional aspects and disturbances of the genitourinary tract.

### *Ped. 102. Outpatient Department Clerkship.*

Fourth year. Students assigned to pediatrics as clinical clerks for a period of four weeks work in the Pediatric Outpatient Department of the University Hospital. All patients seen by the students are reviewed by an instructor of the pediatric staff. Daily conferences covering a wide range of pertinent pediatric topics are held from 9:30 to 10:30 a.m. Students are assigned to the Development, Seizure, Pediatric Hematology, Cardiology and Child Guidance Clinics. Senior students are responsible for physical examinations of all neonates. Field trips to various community agencies are offered to selected students. Ward rounds for senior students are held twice weekly in the University Hospital. Senior students attend the departmental noon conferences.

### *Ped. 103. Laboratory Research Problems in Pediatrics.*

Second year. Elective. (Two students per year.) Students will be required to set up simple laboratory procedures to be used by them in the study of a clinical problem. Problems will be selected of such limited scope that a fairly complete project can be done by two students cooperating in their elective time over a period of one year. Emphasis will be made on the accuracy and reliability of standard techniques, as applied to the detailed analysis of a clinical problem. Interested students should apply to Dr. Bessman.

## ► PHARMACOLOGY

*Professors:* KRANTZ (HEAD OF DEPARTMENT), TRUITT.

*Associate Professors:* BURGISON AND O'NEILL, AND STAFF.

*Assistant Professors:* BRYANT, MUSSER.

### *Pharmacol. 101. General Pharmacology. (233 hours)*

Second year. This course is designed to include those phases of pharmacology necessary for an intelligent use of drugs in the treatment of disease. The didactic instruction includes materia medica, pharmacy, prescription writing, toxicology, dosology, pharmacodynamics and experimental therapeutics. The laboratory exercises parallel the course of lectures.

In addition, optional conference periods and lectures are available for students desiring further instruction or advice.

#### FOR GRADUATES

All students majoring in the Department of Pharmacology with a view to obtaining the degree of Master of Science or Doctor of Philosophy should secure special training in anatomy, mammalian physiology, organic chemistry and physical chemistry.

### *Pharmacol. 201, f.s. General Pharmacology. (9)*

Same as 101, for students majoring in pharmacology. Additional instruction and collateral reading are required. Laboratory fee, \$20.00.

### *Pharmacol. 205. Research.*

Maximum credits, 12. Credit in accordance with the amount of work accomplished.

### *Pharmacol. 206. Pharmacologic Methods.*

Maximum credits, 4. Credit in accordance with the work accomplished.

### *Pharmacol. 207, 208. Chemical Aspects of Pharmacodynamics. (2-2)*

### *Pharmacol. 209. Biochemical Pharmacology. (2)*

## ► PHYSIOLOGY

*Professors:* BLAKE (HEAD OF DEPARTMENT), D. C. SMITH.

*Associate Professors:* ADELMAN, BARRACLOUGH, COLEMAN, MERLIS.

*Assistant Professors:* FOX, GLASER, GREISMAN, KARPELES, PINTER.

*Instructor:* BARRY.

### *Physiol. 101. Principles of Physiology. (225 hours)*

First year, second semester. The lectures cover the major fields of physiology, including the following areas: central and peripheral nervous systems, neuro-muscular apparatus, heart and circulation, respiration, kidney and body fluids, gastrointestinal tract, endocrines and reproduction. The laboratory includes experiments with frog and turtle heart and nerve-muscle preparations, mammalian operative work and observations on the human subject.

#### FOR GRADUATES

The graduate program in physiology is designed primarily for students oriented toward an academic career in the field of mammalian physiology, basic or applied. Some background in mathematics, physics and/or phys-



ical chemistry is considered essential and ordinarily only those wishing to complete the requirements for the Ph.D. degree will be considered. Before admission to candidacy for the Doctor of Physiology degree the Department gives a qualifying examination, both oral and written, which must be satisfactorily passed.

A student majoring in Physiology will ordinarily be expected to take Physiol. 201 (or its equivalent) before, or concurrently with, courses 202 to 208 below. Such a student will extend his major program by taking courses in other departments of this University.

*Physiol. 201. Principles of Physiology. (9)*

Same as Physiol. 101, for graduate students taking physiology. Additional reading will be required. Laboratory fee, \$15.00. (Staff.)

*Physiol. 202. Cardiovascular Physiology. (2)*

Two hours a week for 15 weeks. Reading assignments, seminars, conferences on current research in the cardio-vascular field. (Karpeles.)

*Physiol. 203. Pulmonary Physiology. (2)*

Two hours a week for 15 weeks. Reading assignments, lectures, seminars on current research in pulmonary physiology. (Armstrong.)

*Physiol. 204. Physiological Techniques.*

Time and credit by arrangement. The various technical procedures currently operating in the Department will be demonstrated and opportunity will be given for acquiring experience in them. (Staff.)

*Physiol. 205. Physiology of Kidney and Body Fluids. (2)*

Two hours a week, lectures, seminars and conferences, for 15 weeks. Consideration will be given to the current status of knowledge of renal function and body fluids in vertebrates, with particular reference to mammals. (Blake.)

*Physiol. 206. Seminar.*

Credit according to work done. Weekly meetings are held to discuss recent literature and results of departmental research. (Staff.)

*Physiol. 207. Physiology of the Central Nervous System. (2)*

Two hours a week for 15 weeks. Lectures, seminars and reading assignments on current knowledge of central nervous system function. (Merlis.)

*Physiol. 208. Physiology of the Autonomic Nervous System. (2)*

Two hours a week for 15 weeks. Lectures, seminars and reading assignments on current knowledge of autonomic nervous system function. (Blake.)

*Physiol. 399. Research.*

By arrangement with Head of the Department.

## ► PREVENTIVE MEDICINE AND REHABILITATION

*Professors:* ENTWISLE (HEAD OF DEPARTMENT).

*Associate Professors:* DOWLING, MAHONEY, TAYBACK.

*Assistant Professors:* FLEISCHER, HENDERSON, A. RICHARDSON, P. RICHARDSON, AND STAFF.

### *Prev. Med. 101. Biostatistics. (17 hours)*

First year, second semester. This series of lectures illustrates the basic methods of statistical analysis and demonstrates their use in several areas of clinical investigation.

### *Prev. Med. 102. Epidemiology. (18 hours)*

Second year. The basic methods and applications of epidemiology are illustrated by broad consideration of certain groups of chronic diseases.

### *Prev. Med. 103. Applied Preventive Medicine and Rehabilitation I. (40 hours)*

Third year. The students participate in the work of the Medical Care Clinic for the public assistance population and take part in a program of comprehensive medical care and education given to selected families. Home visits are made to these families. In addition, the student has direct contact with a district health office, rehabilitation conference, and spends part of his assignment at Montebello State Hospital.

During the second semester, 18 hours of lecture are given on the application of principles of epidemiology and disease entities which are immediate and future community problems.

### *Prev. Med. 104. Applied Preventive Medicine and Rehabilitation II. (22 hours)*

Fourth year. At small group conferences, each student reports on the family whose health education he has undertaken. The subject matter of these reports is used for group discussion of the practical application of epidemiological findings and of the principles of disease control (previously outlined in second and third year lectures—PM 102, PM 103).

## REHABILITATION CONFERENCE

Students participate in discussions on patients whose disabilities offer problems concerned with the provision of suitable care during hospitalization and following discharge. An appraisal of the home and family may be made by a student visit prior to the conference.

During the medical student's assignment to the General Medical Clinic of the Outpatient Department, each student spends two afternoons at the Montebello State Hospital.

## ► PSYCHIATRY

*Professors:* BRODY (HEAD OF DEPARTMENT), BARTEMEIER, FARINHOLT, GRENELL, KUBIE, MONROE, REID.

*Associate Professors:* ANDERSON, M. GUTTMACHER, HARTZ, KLEE, B. POPE, RAFFERTY, H. ROBINSON, WEINTRAUB, WILL, I. YOUNG.

*Assistant Professors:* HUFFER, LISANSKY, RAHER, VIEGA, WESTON.

*Instructors:* EICHLER, FIEDLER, HOLDEN, O'CONNOR, TANEGA, AND STAFF.

*Psy. 101a. Life Situations, Emotions and Illness. (Saturday mornings, 1st semester.)*

This course develops a frame of reference for viewing illness of all kinds, emotional and physical, from the study of adults with a wide variety of medical problems. Much of the material is developed during the course of class room interviews with patients from the medical and surgical wards. Important issues include: reactions to stress and situational and social factors in disease. Emphasis is placed upon observing, understanding and evaluating the personal and social factors in the disease process, in treatment, and in prevention.

*Psy. 101b. Introduction to Personality Development. (Saturday mornings, 2nd semester.)*

With the material of the first semester as background, this course offers a developmental approach to the task of understanding how an individual becomes the person he is. A survey of representative theoretical approaches is followed by a chronological discussion of childhood which integrates genetics, embryology, psychoanalysis, learning theory and the social sciences. Etiological considerations and relationships to medical problems and patient management are emphasized.

*Psy. 101c. Behavioral Science and Psychiatry. (Tuesday and Thursday mornings, 2nd semester.) (32 hours)*

This course is concurrent with 101b. and is expected that the two series of discussions will have a mutually stimulating value. Both 101b. and 101c. attempt a more detailed analysis of issues arising in the general clinical framework developed in 101a. This course will introduce basic concepts derived from the behavioral sciences (sociology, anthropology, and psychology) and from psychoanalysis and related areas as they apply to the problems encountered by the clinician. It is expected that courses 101a., b., and c. will provide a basis for the material of course 102.

*Psy. 102. Introduction to Clinical Psychiatry, Psychopathology and Psychotherapy. (60 hours)*

Class room interviews with psychiatric patients, lectures and discussion will furnish a basis for the clerkships of the third and fourth years.

*Psy. 103. Psychiatric Clinical Clerkship. (3 weeks)*

Third year. Students work as clinical clerks in The Psychiatric Institute. Each student is assigned to an Assistant Resident who acts as a preceptor. As patients are admitted, they are assigned to a student who assumes responsibility for the examination and the history. In the out-patient department, the students see all patients applying for treatment either on an emergency basis or by appointment. During the evenings two students take "call" with an Assistant Resident.

*Psy. 104. Advanced Psychiatric Clinical Clerkship (4 weeks)*

Fourth year. A clinical clerkship is offered in the wards of the University Hospital for one month. Emphasis is placed on diagnosis, methods of interviewing, methods of developing and managing a therapeutic

doctor-patient relationship, and carrying out psychotherapy. Two afternoons each week are spent treating patients under supervision in the Comprehensive Clinic. Each student also works with one child patient and his parents in the Mental Hygiene Clinic of the Western Health District. An eight hour seminar on psychosomatic problems is given.

## ► RADIOLOGY

*Professors:* DENNIS (HEAD OF DEPARTMENT), BLOEDORN, DAVIDSON.

*Associate Professors:* BOUDREAU, CUCCIA.

*Assistant Professors:* DANA DE CARLO, LYON, MERCADO, WOLFEL, AND STAFF.

### *Rad. 101. Radiologic Anatomy. (12 hours)*

First year, first semester. A correlated course is given in conjunction with the Department of Anatomy. This course consists of nine lecture-demonstrations devoted to the skull, chest, gastro-intestinal tract, genito-urinary tract, the spine and joints. Not only is the normal anatomy shown, but the radiologic aspects of a few pathologic processes are also shown for emphasis and correlation.

### *Rad. 103. Radiation Therapy Orientation. (5 hours)*

Third year. This series of five lectures is given to the whole third year class to present the basis of radiation therapy. In the first lecture, the basic principles of radiotherapy and the present and future role of radiotherapy of malignant tumors is presented. The second lecture is devoted to the principles of radiobiology, radiophysics and radiation protection. The last three lectures deal with groups of tumors that are curable with ionizing radiation with a discussion of the principle indications, management and results of radiotherapy in each of these groups.

### *Rad. 104. Radiologic Orientation I. (33 hours)*

Third year. A series of lecture-demonstrations are given to small groups of students at the Baltimore City Hospital, Mercy Hospital and the University Hospital. An attempt is made to cover the roentgen studies of all systems of the body with demonstrations of the more common lesions encountered in each system. At Baltimore City Hospital, twelve lecture-demonstrations are given on the chest, the genito-urinary tract and metabolic bone diseases, while at Mercy Hospital, three hours are devoted to the arthritides and bone tumors. At the University Hospital, eighteen additional lecture-demonstrations are devoted to the lungs, gastro-intestinal tract, heart and skull.

### *Rad. 105. Radiologic Orientation II. (60 hours)*

Fourth year. Students in groups of five are assigned full time for a period of two weeks to the Diagnostic Division of the Department of Radiology. On alternate mornings, a student observes chest and gastro-intestinal fluoroscopy, interviews outpatients and correlates the clinical and roentgen findings on these patients and attends film reading sessions with the staff radiologists. The students are taught the basic principles of fluoroscopy and are assigned a few patients with pulmonary and cardiac lesions to fluoroscope. Recommended reading assignments are



made and the students spend the afternoons studying a select group of teaching cases which are correlated with these reading assignments. Daily diagnostic conferences are held with the students, and at this time the interesting cases of the day are presented. They also attend joint conferences held with the department of Pediatrics, and the Division of General and Thoracic Surgery.

## ► SURGERY

*Professors:* BUXTON (HEAD OF DEPARTMENT), ARNOLD, BLANCHARD, COWLEY, HULL, KITLOWSKI, O'ROURK, PESSAGNO, ROGERS, VOSHELL, YEAGER, AND YOUNG.

*Associate Professors:* FOX, GARLICK, KAYSER, LINBERG, MANSBERGER, SCARBOROUGH, THOMPSON.

*Assistant Professors:* T. R. ADAMS, ARMSTRONG, ATTAR, BONGARDT, BOWIE, FLOTTE, GOVATOS, HAINES, MAYS, MOSBERG, SCHWARTZ, SIWINSKI, WILDER, AND STAFF.

### *Surg. 101. Principles of Surgery. (44 hours)*

Third year. Three one hour periods are devoted each week to a discussion of fundamental surgical problems and a systematic description of general surgical disease. These discussions are designed as introductions to and preparation for detailed reading in standard textbooks, current periodicals and monographs in surgery.

### *Surg. 101a. Surgical Specialty Lectures. (66 hours)*

Third year. This is a continuation of Surg. 101, wherein the surgical discussions center around the problems of Otorhinolaryngology. Thoracic Surgery, Neurosurgery, Orthopedic Surgery and Urologic Surgery.

### *Surg. 103. Outpatient Clerkship in Surgery. (286 hours)*

Third year. One-fourth of the third year class is assigned to the Department of Surgery each quarter of the school year. Students are assigned to the Outpatient Department for the examination and supervised care of patients in the General Surgical, Orthopedic, Urologic and ENT Clinics. One-third of this quarter is spent at Mercy Hospital. Students are assigned in rotation as clinical clerks at night in the Emergency Room.

## SUMMER FELLOWSHIPS

Fellowships are available each summer for a period of ten weeks in the Surgical Research Laboratory. Both sophomore and junior students are eligible. Investigative problems related to these services will be undertaken under the guidance of members of the Surgical Staff.

## *Division of General Surgery*

*Doctors:* ADAMS, BONGARDT, BOWIE, BUXTON, COX, FLOTTE, GOVATOS, HULL, MANSBERGER, PESSAGNO, SCARBOROUGH, SIWINSKI, YEAGER, AND STAFF.

*Surg. 103a.*

This is the student's introduction to an office-type surgical practice in that he undertakes the supervised care of patients in the Surgical Dispensary. General discussions related to problems presented by these patients are given by the Surgical Staff. The introduction to specific surgical technics in examination and treatment of patients is undertaken. This course is given at both University and Mercy Hospitals. Audio-visual instruction is given. Students are assigned to the Emergency Room during this period.

*Surg. 104a.*

Senior students are assigned to patients on the surgical wards in the University Hospital. They are responsible for the physical examination, history and certain laboratory tests as required by the patient's disease. They participate in the active care and treatment of patients and in addition, have specific assignments to the Emergency Room.

*Division of Neurosurgery*

*Doctors:* ARNOLD, THOMPSON, AND STAFF.

*Surg. 104b.*

Senior students assigned to this division act in the capacity of student interns. The students are closely integrated with the House Staff and are assigned sufficient patients so that comprehensive experience in the diagnosis and treatment of neurosurgical problems is obtained. Instruction is through ward rounds and informal discussions. Wednesday mornings are devoted to clinical, x-ray and neuropathological conferences.

*Division of Orthopedic Surgery*

*Doctors:* VOSHELL, TANSEY, WILDER, AND STAFF.

*Surg. 103c.*

Junior students are assigned to this division in the Outpatient Department at University and Mercy Hospitals. Patients are seen for diagnosis and postoperative care. Instruction is given in the application of plaster casts and in the ambulatory management of orthopedic problems. Occasion is given to instruction in the Physical Therapy of patients with orthopedic disease.

*Surg. 104c.*

Senior students are assigned patients both on the surgical wards and in the Emergency Room. They participate in the care of these patients, and are given instruction in the application of traction and plaster casts. Frequent ward rounds are held at the Kernan Hospital for Crippled Children, where an Amputee Training Program is active.

### *Division of Urological Surgery*

*Doctors:* GALLEHER, HAINES, MAYS, YOUNG, AND STAFF.

#### *Surg. 103d.*

Instruction is given to junior students in this division in the diagnosis of urologic disease of both men and women. The general aspects of instrumentation are discussed and the roentgenologic evidence of urologic disease is emphasized.

#### *Surg. 104d.*

Students are assigned patients in the University Hospital wards. Further instruction is given in diagnosis and instrumentation of these patients and in the x-ray diagnosis of urologic disease.

### *Division of Otolaryngology*

*Doctors:* ALDERMAN, BLANCHARD, CROSS, GERLACH, MICHAEL, O'ROURK, AND STAFF.

*Mercy Hospital:* DRS. SCHWARTZ, ISAACS, AND KAYSER.

#### *Surg. 103e.*

In a series of six periods of four hours, in the Outpatient Otolaryngology Clinic, junior students are individually instructed in the techniques of the examination of the ears, nose and throat. One hour of basic audiological technique is presented to each group by Mr. Bertram Thorne, one hour of introductory speech therapy is presented by Mr. John Carter.

#### *Surg. 104e.*

An advanced period of elective study with emphasis on diagnosis and treatment is available to approximately 18 senior students each year as an alternate elective surgical specialty for one month's duration. In the Outpatient Department, diagnostic problems are presented at conferences with the staff department head twice each week and thoroughly reviewed in the light of current practice. Two sessions each week are available to the student to assist in the operating room and two sessions each week are available in the bronchoesophagology clinic. Each student is responsible for evening emergency calls on Ear, Nose and Throat and examination of the patients admitted on the service. Daily ward rounds are carried out with the students.

### *Division of Thoracic Surgery*

*Doctors:* COWLEY, GARLICK, LINBERG, MILLER, AND STAFF.

#### *Surg. 104f.*

Senior students participate in the care of these patients in the operating rooms and on the wards of University, Mercy and Mt. Wilson Hospitals. In addition, they receive instruction in diagnostic bronchoscopy, esophagoscopy, cardiac catheterization, angiocardiology and pulmonary function studies.

# Postgraduate Courses

## COMMITTEE ON POSTGRADUATE STUDIES

PATRICK B. STOREY, *Chairman*

ELIZABETH B. CARROLL, *Executive Secretary*

WALTER A. ANDERSON	ALBERT E. GOLDSTEIN	RUSSELL R. MONROE
WILLIAM D. BLAKE	LAD F. GRAPSKI	HARRY M. ROBINSON, JR.
J. EDMUND BRADLEY	ARTHUR L. HASKINS	EDWIN R. RUZICKA
ROBERT W. BUXTON	JOHN H. HORNBAKER	MILTON S. SACKS
RAYMOND L. CLEMMENS	GERALD D. KLEE	LEONARD SCHERLIS
CHARLES H. CONLEY	JOHN C. KRANTZ, JR.	WILLIAM S. SPICER, JR.
THOMAS B. CONNOR	WILLIAM B. LONG	WILLIAM A. VAN ORMER
EDWARD F. COTTER	ARLIE R. MANSBERGER, JR.	THEODORE E. WOODWARD
HARLAN I. FIRMINER	EDMUND B. MIDDLETON	GEORGE H. YEAGER

### *Ex-Officio Members*

WILLIAM S. STONE, *Dean of School of Medicine*

GEORGE H. YEAGER, *President of Medical Alumni Association*

WOLCOTT L. ETIENNE, *President of Maryland Academy of General Practice*



The program of postgraduate medical education at the University of Maryland is designed to provide the opportunity for all practicing physicians to keep abreast of the rapid developments in the science and practice of medicine.

Individual or group instruction is available. Any individual physician who is interested in developing some particular knowledge or skill should contact the office of the Postgraduate Committee directly.

The major group courses given during the academic year 1962-63, and which the Committee expects to give again during 1963-64, are listed below:

*Basic Electrocardiography.* Given on November 15, 16, 17, 1962 at the Baltimore Union Building under the direction of Dr. Leonard Scherlis, this course presents in comprehensive fashion the basic principles of electrocardiography and the alterations produced by the common disease processes. Each physician is given a course manual. Intensive small group drills in interpretation of provided tracings follow the lectures. Instruction is thus highly individualized. Enrollment in this course is limited to 30 physicians, and the tuition is \$60.00.

*Neuropathology for Pathologists.* This highly specialized course was given under the direction of Dr. John A. Wagner from December 3 through 8, 1962. Instruction is given at the practical level and includes basic neuropathology, trauma, tumors, infections and degenerative diseases; surgical neuropathology, the neurological clinicopathological conference; and practical drill in cutting, blocking, staining, and microscopic study of provided specimens. Enrollment is limited to 12 practicing pathologists, and the tuition is \$125.00.

*Endocrinology and Metabolism.* Given in 1962 on January 12 and 13, under the direction of Dr. Thomas B. Connor and Dr. John G. Wiswell, this course covered disorders of the thyroid, adrenal, pituitary, and gonads in terms of fundamental relationships, techniques of diagnosis, and principles of management. Demonstration protocols were used in small group sessions as drills in interpretation of various clinical pictures and associated chemical findings. Enrollment is limited to 30 physicians and tuition fee is \$40.00.

*Advances in Medical Science.* This course was given for two hours on twelve consecutive Wednesday afternoons, beginning on January 9, 1963. It is designed for experienced physicians who wish a review of the important advances in medical science. Emphasis is placed on a basic scientific approach to an understanding of the more common clinical problems and their management. Tuition fee is \$40.00.

*Clinical Anatomy.* This course, under the direction of Dr. Otto C. Brantigan, runs through the full second semester of the medical school with meetings on Monday afternoons and Wednesday mornings. Emphasis is placed on the practical application of anatomy and anatomical principles in the physical and x-ray diagnosis. Anatomical knowledge is related to the use of needling in performing diagnostic procedures and in treatment. The

## 100 *Postgraduate Courses*

course is directed toward both the medical man and the surgeon. It is an aid in the preparation for the American Board examination. Enrollment is limited to 15 physicians and the tuition fee is \$150.00.

*Clinical Cardiology.* Under the direction of Dr. Leonard Scherlis, this course was given on February 1, 2, 3, 1962, emphasizing the presentation of clinical problems in coronary artery and rheumatic valvular heart disease. The practical aspects of the newer techniques of investigation such as right and left heart catheterization, dye dilution curves, angiocardiology, sound and pulse tracing, etc. are included. The course is featured by case presentations and clinical exercises. Enrollment is limited to 30 physicians and tuition fee is \$60.00.

*Hematology.* Given on March 8, 9, 1962 under the direction of Dr. Milton S. Sacks, the course was divided into lectures and workshops. Basic physiology of blood formation, hemoglobin and iron metabolism were considered, followed by a presentation of the anemias, jaundice, the leukemias, the various blood discrasias and purpuras. In the workshops the various techniques utilized in the Hematology Laboratory were demonstrated. Enrollment is limited to 25 physicians and tuition is \$40.00.

*Industrial Medicine.* Designed for physicians who are concerned with the ability of cardiac patients to work; nurses who must observe such patients on the job; industrial hygienists who are concerned with the conditions under which the cardiac patient works; plant managers who must make decisions which should be based on sound information. Given on December 13, 1962. Tuition, \$10.00.

*Practical Dermatology.* February 7, 1963. Under the direction of Dr. Harry M. Robinson, Jr. Fee \$10.00. A clinical session in which many dermatologic disorders were seen and examined by the attending physicians, followed by presentation and discussion of the problems of diagnosis and management of each entity.

*Gynecology Day.* February 21, 1963. Under the direction of Dr. Edmund B. Middleton. Fee \$10.00. The practical problems encountered in the office and clinic care of the gynecologic patient were considered.

*Surgical Physiology.* Under the direction of Arlie R. Mansberger, Jr. Fee \$10.00. Principally concerning the clinical problems commonly presented by the surgical patient.

An extramural two-day program was given November 29, 30, 1962 at the Washington County Hospital in Hagerstown, under the direction of Dr. Patrick B. Storey, in collaboration with the Washington County Medical Society.

Inquiry about any of these courses is welcomed.

## LECTURERS IN POSTGRADUATE MEDICINE 1961-1962

Thurston R. Adams	Martin K. Gorten	Herbert Nasdor
George C. Alderman	Sheldon E. Greisman	Ross Z. Pierpont
Marie A. Andersch	Arthur L. Haskins	Herbert Reifschneider
George K. Baer	Ray Hepner	Richard D. Richards
James G. Arnold, Jr.	Maureen M. Henderson	Harry M. Robinson, Jr.
Samuel P. Bessman	Richard B. Hornick	Milton S. Sacks
Cyrus L. Blanchard	Elsa F. Jahn	Leonard Scherlis
Fernando G. Bloedorn	Walter E. James	Sidney Scherlis
Francis J. Borges	Rouben Jiji	Adalbert F. Schubart
Steven J. Borzani	D. Frank Kaltreider	William B. Settle
Robert P. Boudreau	Theodore E. Kardash	Charles F. Shaw
Harry C. Bowie	Leo M. Karpeles	Robert T. Singleton
J. Edmund Bradley	H. David Kerr	Vernon M. Smith
Otto C. Brantigan	Henricus Kuypers	William S. Spicer, Jr.
Robert W. Buxton	Yo Chen Lee	Melchijah Spragins
John F. Carter	Eugene J. Linberg	Carroll L. Spurling
Thomas B. Connor	Richard Lindenberg	William S. Stone
R. Adams Cowley	Richard L. London	Patrick B. Storey
Robert M. N. Crosby	Arlie R. Mansberger, Jr.	Kyle Y. Swisher
Carlo A. Cuccia	Henry J. L. Marriott	Charles Van Buskirk
Everett S. Diggs	J. Max Masters	Umberto Villa Santa
John M. Dennis	Fred R. McCrumb	John A. Wagner
William C. Esmond	Hugh B. McNally	W. Wallace Walker
Harlan I. Firminger	Joseph T. Michels	Karl H. Weaver
Russell S. Fisher	Russell R. Monroe	Walter Weintraub
Thomas C. Flotte	Wm. K. C. Morgan	John G. Wiswell
William D. Gentry	Wm. H. Mosberg, Jr.	Donald A. Wolfel
Luis F. Gonzales	G. Allen Moulton	Theodore E. Woodward
Thomas A. Good	Richard S. Mumford	Joseph B. Workman

*Guest Faculty*

Reubin Andres	Grant W. Liddle
Robert M. Blizzard	Sarah E. Stewart
Kenneth M. Brinkhous	Frederick Stohlman, Jr.
James E. Field	Theodore Winship
Emil Frei, III	Abner Wolf
Eugene Kaplan	

# Matriculants

## FIRST YEAR

<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Abramowitz, Leslie, A.B.	<i>George Washington Univ., 1962</i>	Maryland
Acker, Diane Lenore, A.B.	<i>Barnard College, 1962</i>	New York
Arnold, James Edward, B.S.	<i>Parson's College, 1962</i>	Maryland
Bard, Richard Heenry, A.B.	<i>Washington University, 1962</i>	Maryland
Baron, Robert Bruce, A.B.	<i>Johns Hopkins University, 1962</i>	Maryland
Barrash, Jay Martin, B.S.	<i>University of Maryland, 1963</i>	Maryland
Blaustein, Arnold Saul, A.B.	<i>Johns Hopkins University, 1962</i>	Maryland
Bosley, William Robert, A.B.	<i>Johns Hopkins University, 1962</i>	Maryland
Braunohler, Walter Martin, A.B.	<i>Johns Hopkins University, 1962</i>	Maryland
Brotman, Sheldon Irving, A.B.	<i>Gettysburg College, 1962</i>	Maryland
Brous, Philip Panos, A.B.	<i>Cornell University, 1962</i>	Maryland
Brown, Mark Jeffrey, A.B.	<i>Bucknell University, 1962</i>	Maryland
Brownlow, Wilfred John, Jr., M.S., B.S.	<i>University of Wisconsin, 1962</i>	New York
Buchness, Michael Patrick, B.S.	<i>Loyola College, 1962</i>	Maryland
Burnham, Harold Arthur, B.S.	<i>Middlebury College, 1961</i>	New York
Caminis, Perry James, A.B.	<i>Harvard University, 1961</i>	Maryland
Carter, Herman Lee, Jr., B.S.	<i>Morgan State College, 1960</i>	Maryland
Carty, James Walker, Jr., A.B.	<i>Washington &amp; Lee Univ., 1962</i>	Maryland
Clarke, Dana Harry, A.B.	<i>Univ. of Massachusetts, 1962</i>	Massachusetts
Classen, Charles Henry, B.S.	<i>Trinity College, 1962</i>	Pennsylvania
Cohen, Arthur, B.S.	<i>University of Maryland, 1962</i>	Maryland
Cohen, Ora Richard, B.S.	<i>University of Maryland, 1962</i>	Maryland
Collins, Hammond Charles, B.S.	<i>Boston College, 1961</i>	Massachusetts
Cook, David Michael, B.S.	<i>Ohio University, 1962</i>	W. Virginia
Cost, Francis Howard, Jr., A.B.	<i>Gettysburg College, 1962</i>	Maryland
Costleigh, Robert Platt, B.S.	<i>University of Oregon, 1962</i>	Oregon
Crist, Henry Spera, B.S.	<i>Dickinson College, 1962</i>	New Jersey
Cushing, Jane Frances, A.B.	<i>Cornell University, 1962</i>	Maryland
Daume, John Emil, A.B.	<i>University of Michigan, 1961</i>	Michigan
Daw, Albert Lee, A.B.	<i>University of Virginia, 1957</i>	D. C.
Dobrzycki, Gerard Dominic, B.S.	<i>University of Maryland, 1957</i>	Maryland
Dvoskin, Philip Bryan, B.S.	<i>University of Maryland, 1962</i>	Maryland
Ellis, Michael Anthony, B.S.	<i>Loyola College, 1961</i>	Maryland
Ellwood, Pudge Nelson, A.B.	<i>Johns Hopkins University, 1962</i>	S. Dakota
Ertag, William David, A.B.	<i>Johns Hopkins University, 1962</i>	New Jersey
Fine, Stuart Lee, A.B.	<i>University of Maryland, 1962</i>	Maryland
Flax, Richard Leroy, B.S.	<i>University of Maryland, 1962</i>	Maryland
Fleming, Gary Allan, B.S.	<i>Franklin &amp; Marshall College, 1957</i>	Pennsylvania
Fortier, Dwight Norbert, A.B.	<i>University of Maryland, 1962</i>	Maryland



<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
France, Joseph Martin, B.S.	Loyola College, 1962	Maryland
Gallahorn, George Edward, B.S.	Georgetown University, 1962	Maryland
Gattis, Bruce Wayne, B.S.	University of New Mexico, 1962	Maryland
Gerber, Saul Bruce, B.S.	University of Maryland, 1962	Maryland
Glass, Richard Salvatore, B.S.	University of Maryland, 1962	Maryland
Goldberg, Marshall Colman, A.B.	Johns Hopkins University, 1962	Maryland
Golladay, Donald Emerson, B.S.	University of Maryland, 1962	Maryland
Gombart, Augustin Karl, B.S.	University of Maryland, 1962	Maryland
Gordon, Dennis Harvey	Utah State University	Utah
Gordon Stephen Frank, B.S.	George Washington Univ., 1962	New Jersey
Gracia-Culpeper, Jose Rafael, B.S.	University of Puerto Rico, 1962	Puerto Rico
Green, John Gary, B.S.	Loyola College, 1961	Maryland
Grenzer, Louis Eberhardt, A.B.	Duke University, 1962	Maryland
Griffin, Dean Harp, B.S., M.S.	University of Maryland, 1958 1961	Maryland
Hameroff, Stephen Barry, B.S.	University of Maryland, 1962	New York
Haney, Michael Joe, B.S.	University of Maryland, 1962	Maryland
Hanson, Irvin Rivers, B.S.	Wake Forest College, 1961	Maryland
Harrison, William Orville, A.B.	Stanford University, 1961	Oregon
Hatch, Edward Spring, Jr., B.S.	University of Maryland, 1962	Maryland
Hawkins, James Marbury, B.S.	University of Maryland, 1960	Maryland
Heimberg, Michael Jay, B.S.	University of Maryland, 1962	Maryland
Hill, Thomas Michael, B.S.	Georgetown University, 1962	New York
Hosick, Elizabeth Claire, A.B.	Grinnell College, 1962	Michigan
Houston, John Joseph, B.S.	Georgetown University, 1962	Maryland
Hricko, George Medard, B.S.	Loyola College, 1961	Maryland
Ingle, Larry Travis, A.B.	University of Maryland, 1962	Maryland
Johnson, Franklin Leroy, B.S.	University of Maryland, 1962	Maryland
Jones, Emory E., II, A.B.	University of Virginia, 1962	W. Virginia
Keller, John Gordon, B.S.	University of Utah, 1961	Utah
Kiracofe, Harry Loudeen, A.B.	Princeton University, 1960	Maryland
Klein, Marshall Earl, B.S.	University of Maryland, 1960	Maryland
Knowles, Raymond Edgar, Jr., A.B.	Johns Hopkins University, 1962	Maryland
Koenig, Ronald Howard, A.B.	Johns Hopkins University, 1962	Maryland
Kormann, Leo Arthur, B.S.	University of Maryland, 1961	Maryland
Koskinen, Kenneth Ralph, A.B.	Franklin & Marshall	Maryland
Krakow, Joel Arnold, A.B.	Lehigh University, 1962	Ohio
Kramer, Lloyd Irvin, B.S.	University of Maryland, 1962	Pennsylvania
Kyper, Charles Hughes, B.S.	Loyola College, 1962	Maryland
Leibowitz, Robert E., B.S.	Dickinson College, 1961	New Jersey
Long, Elmer Charles, Jr., B.S.	Kutztown State College, 1962	Maryland
Love, John Clyde, A.B.	Johns Hopkins University, 1962	Michigan
Machiz, Stephen, A.B.	University of Maryland, 1961	Maryland
Mackert, Michael Joseph	Mt. St. Mary's College	Maryland
Mann, John Hatch, A.B.,	Yale University, 1961	New Jersey
Marcus, Joseph Baer, B.S.	University of Maryland, 1962	Maryland
Marek, William James, B.S.	University of Maryland, 1960	Maryland
Mason, William Terry, A.B.	Western Reserve Univ., 1962	Ohio
Mattsson, Carl Anthony, B.S.	University of Utah, 1962	Utah
McHold, David Stanley, A.B.	Morehead State College, 1962	Maryland
Miller, Albert Truman, B.S.	Eastern Mennonite College, 1962	Maryland
Monfried, Allan Jerome, A.B.	Duke University, 1962	Maryland

# 104 *Matriculants*

<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Music, Stanley Irving, B.S.	<i>George Washington Univ., 1962</i>	Maryland
Oldroyd, John Jay, A.B.	<i>University of Utah, 1961</i>	Utah
Oler, Raymond Wayne, B.S.	<i>University of Georgia, 1962</i>	Maryland
Ominsky, Barry Edwin Lee, B.S.	<i>University of Maryland, 1962</i>	Maryland
Orfuss, Carl Joseph, B.S.	<i>University of Maryland, 1962</i>	Maryland
Palmisano, Frank Samuel, B.S.	<i>Loyola College, 1962</i>	Maryland
Pass, Carolyn Joan, B.S.	<i>University of Maryland, 1962</i>	Maryland
Plotnick, Gary David, A.B.	<i>Johns Hopkins University, 1962</i>	Maryland
Press, Samuel Eanet, B.S.	<i>University of Maryland, 1962</i>	Maryland
Price, Charles Downey, A.B.	<i>Western Maryland College, 1962</i>	Maryland
Quinlan, James Arthur, Jr., B.S.	<i>University of Maryland, 1962</i>	Maryland
Raine, Dudley Allen, Jr., B.S.	<i>Hampden-Sydney College, 1962</i>	Maryland
Rawlings, Nina Cole, B.S.	<i>Morgan State College, 1957</i>	Maryland
Reed, Richard Henry, B.S.	<i>University of Maryland, 1962</i>	Maryland
Rivera-Rivera, Ernesto, B.S.	<i>University of Puerto Rico, 1962</i>	Puerto Rico
Rokoff, Michael Jay	<i>Johns Hopkins University</i>	Maryland
Schwartz, Florence Sheila, A.B.	<i>Goucher College, 1962</i>	Maryland
Schwarz, Hans Jeurgen, B.S.	<i>University of Maryland, 1961</i>	Maryland
Segarra y Padro, Rafael Angel, B.S.	<i>University of Puerto Rico, 1962</i>	Puerto Rico
Serritella, Alfred Anthony, B.S.	<i>University of Maryland, 1962</i>	Maryland
Shuger, Richard David, B.S.	<i>University of Maryland, 1962</i>	Maryland
Siple, Donald Joel, B.S.	<i>University of Maryland, 1962</i>	Maryland
Sligar, Kurt Porter, A.B.	<i>Whitman College, 1962</i>	Washington
Sopher, Irvin Murray, D.D.S.	<i>Univ. of Md.-Dentistry, 1962</i>	Maryland
Spence, James Wilson, B.S.	<i>University of Maryland, 1962</i>	Maryland
Steers, John Edward, B.S.	<i>Johns Hopkins University, 1956</i>	Pennsylvania
Steinbauer, David Jerome, D.V.M.	<i>University of Georgia, 1961</i>	Maryland
Stern, Jack Irwin, A.B.	<i>University of Vermont, 1962</i>	Connecticut
Stier, Jeffrey Stephen, B.S.	<i>Bethany College, 1962</i>	New York
Stramski, Robert Alfonse, B.S.	<i>University of Maryland, 1962</i>	Massachusetts
Susel, Richard Malcolm, B.S.	<i>University of Maryland, 1962</i>	Maryland
Swan, Beresford Mark, B.S.	<i>Morgan State College, 1962</i>	Bermuda
Trattler, Henry Leonard, B.S.	<i>University of Maryland, 1962</i>	Maryland
Wittmann, Stephan John, B.S.	<i>University of Maryland, 1962</i>	Maryland
Young, Robert Runyan, A.B.	<i>Washington University, 1962</i>	Missouri
Yuspa, Stuart Howard, A.B.	<i>Johns Hopkins University, 1962</i>	Maryland
Zalewski, Andrew Anthony, B.S.	<i>University of Maryland, 1962</i>	Maryland
Zimmerly, James Gregory, A.B.	<i>Gannon College, 1962</i>	Pennsylvania
Zucker, Sandra Lee	<i>Univ. of Md.-Nursing,</i>	Maryland

## SECOND YEAR

Aaronson, Jeffrey D., A.B.	<i>Johns Hopkins University, 1961</i>	Maryland
Agus, Zalman S., A.B.	<i>Johns Hopkins University, 1961</i>	Illinois
Axley, John J., B.S.	<i>University of Maryland, 1961</i>	Wisconsin
Albertsen, Verner	<i>Howard University</i>	Denmark
Baldwin, Brian Jay, A.B.	<i>George Washington, 1960</i>	New York
Benfield, Donald G., B.S.	<i>University of Maryland, 1959</i>	N. Carolina
Blum, Stanley L., A.B.	<i>Lafayette College, 1961</i>	Maryland
Brian, Bruce Allen, A.B.	<i>Williams College, 1961</i>	Maryland
Brown, Charles S., A.B.	<i>Yale University, 1957</i>	Missouri
Brown, Harry J., B.S.	<i>University of Maryland, 1959</i>	Maryland
Brown, Jeffrey Lee, A.B.	<i>Hobart College, 1961</i>	New York

<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Bruce, Wm. Gregory, A.B.	<i>Transylvania College, 1960</i>	Maryland
Bruther, William F., B.S.	<i>Mt. St. Mary's College, 1961</i>	New Jersey
Bullock, Stanley Sprague, A.B.	<i>University of California, 1959</i>	California
Choate, Wm. H., B.S.	<i>University of Maryland, 1959</i>	Maryland
Chong, Ching Lap, A.B.	<i>Johns Hopkins University, 1960</i>	Hong Kong
Cimonetti, Thomas C., A.B.	<i>St. Michael's Monastery, 1952</i>	Massachusetts
Cley, Brenda M., A.B.	<i>Fisk University, 1961</i>	Maryland
Collins, Chester Cattell, Jr., B.S.	<i>University of Maryland, 1960</i>	Maryland
Coplin, Michael N., A.B.	<i>University of Pennsylvania, 1960</i>	New Jersey
Dick, Arthur R., A.B.	<i>University of Wichita</i>	Canada
Dougherty, Patrick F., B.S.	<i>Mt. St. Mary's, 1961</i>	Maryland
deBuy, Jean B., A.B.	<i>Johns Hopkins University, 1961</i>	Maryland
Dumler, John C., B.S.	<i>Washington &amp; Lee, 1961</i>	Maryland
Ehrlich, Garey L., B.S.	<i>Dickenson College, 1961</i>	Maryland
Engelike, Geo. E., B.S.	<i>Georgetown University, 1960</i>	Maryland
Fesche, Paul H., B.S.	<i>University of Maryland, 1960</i>	Maryland
Fine, Louis L., A.B.	<i>Cornell University, 1961</i>	Maryland
Frey, Allen A., A.B.	<i>Johns Hopkins University, 1961</i>	New York
Friedler, Stanley, B.S.	<i>University of Maryland, 1961</i>	Maryland
Gillis, David J., B.S.	<i>Loyola College, 1960</i>	Maryland
Goldner, Ronald, B.S.	<i>University of Maryland, 1960</i>	Maryland
Goldsmith, Stanley, B.S.	<i>Michigan State, 1961</i>	Maryland
Gould, William M., B.S.	<i>Duke University, 1961</i>	Maryland
Gray, Timothy K., B.S.	<i>Loyola College, 1961</i>	Maryland
Hale, Boyd J., A.B.	<i>Brigham Young Univ., 1960</i>	Idaho
Handwerger, Robert L.	<i>University of Maryland</i>	Maryland
Harris, David R., A.B.	<i>University of California, 1960</i>	California
Harrison, Chas. Simeon, A.B.	<i>Kent State University, 1958</i>	Maryland
Herold, Fred S.	<i>University of Maryland</i>	New York
Highstein, Stephen M., A.B.	<i>Rensselaer, 1961</i>	Maryland
Himmelfarb, Terren M., B.S.	<i>University of Maryland, 1961</i>	Maryland
Hisley, John C., A.B.	<i>Washington &amp; Lee, 1960</i>	Maryland
Hoffman, Edw. S., A.B.	<i>University of Rochester, 1961</i>	New York
Holthous, Robt. R., A.B.	<i>University of Maryland, 1961</i>	Maryland
Howard, Susan, L.	<i>University of Maryland</i>	Maryland
Johnson, Barbara L., B.S.	<i>American University, 1961</i>	D. C.
Jones, Calvin E., Jr., B.S.	<i>University of Maryland, 1961</i>	Maryland
Judman, Allen H., B.S.	<i>University of Maryland, 1960</i>	Maryland
Kandler, Paul A., A.B.	<i>Johns Hopkins University, 1961</i>	New York
Kistler, Galen H., B.S.	<i>Muhlenberg, 1961</i>	Pennsylvania
Land, Allan S., A.B.	<i>John Hopkins University, 1960</i>	Maryland
Landau, Earl K., A.B.	<i>George Washington Univ., 1961</i>	D. C.
Legat, Wm. E., A.B.	<i>Yale University, 1961</i>	New Jersey
Levin, Sanford L., A.B.	<i>Johns Hopkins University, 1961</i>	Maryland
Lewis, Frank R., Jr., A.B.	<i>Princeton University, 1961</i>	Maryland
Margolis, Jay S., A.B.	<i>Western Maryland College, 1960</i>	Maryland
Maun, John Wm., B.S.	<i>Washington College, 1961</i>	W. Virginia
Mendez-Bryan, Carlos	<i>Univ. of Puerto Rico</i>	Puerto Rico
Mueller, John G., A.B., DD.S.	<i>Duke University, 1953</i>	
	<i>Univ. of Md. Dental School, 1957</i>	Maryland
Northern, Martin Elbert, B.S.	<i>Loyola College, 1961</i>	Maryland
Olsen, Louis O., B.S.	<i>University of Maryland, 1961</i>	Maryland
Olson, Janne R., B.S.	<i>Loyola College, 1961</i>	Wisconsin
Patrick, George S., A.B.	<i>West Virginia University, 1960</i>	W. Virginia
Pelczar, Michael Eugene, A.B.	<i>Loyola College, 1960</i>	Maryland

# 106 *Matriculants*

<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Peters, George, B.S.	<i>Stevens Inst. of Tech., 1954</i>	New York
Poiley, Jeffrey, A.B.	<i>Johns Hopkins University, 1961</i>	Maryland
Reilly, Michael J., B.S.	<i>University of Maryland, 1960</i>	Maryland
Roane, Donald C., B.S.	<i>Howard University, 1961</i>	Maryland
Robinson, E. Ann, A.B.	<i>Vassar College, 1961</i>	Maryland
Rosenstein, Alfred B., A.B.	<i>Western Maryland College, 1961</i>	Maryland
Sainotz, Henry A., A.B.	<i>Johns Hopkins University, 1961</i>	Maryland
Sattenspiel, Sigmund, B.S.	<i>University of Wisconsin, 1961</i>	New York
Schoen, Allan Elias, A.B.	<i>Western Reserve Univ., 1960</i>	Maryland
Schwartz, David S., A.B.	<i>Western Maryland College, 1961</i>	Maryland
Schwartz, Martin S., B.S.	<i>University of Maryland, 1961</i>	Maryland
Segal, Hannah J., B.S.	<i>University of Maryland, 1961</i>	Maryland
Shope, Earl S., A.B.	<i>George Washington Univ., 1961</i>	Pennsylvania
Signor, Wm. E., III, B.S.	<i>University of Maryland, 1961</i>	New York
Sjolund, George C., A.B.	<i>Tufts University, 1956</i>	Connecticut
Smyth, Dennis F., Jr., A.B.	<i>Loyola College, 1961</i>	Maryland
Snyder, Larry A., B.S.	<i>University of Maryland, 1960</i>	Maryland
Stadiowski, Mitsie P., B.S.	<i>Loyola College, 1961</i>	Maryland
Steffy, John M., A.B.	<i>UCLA, 1961</i>	California
Stein, Harry C., B.S.	<i>Loyola College, 1961</i>	Maryland
Sugar, Fred W., B.S.	<i>University of Maryland, 1961</i>	Maryland
Sunderland, Hollis R.	<i>George Washington Univ.</i>	Michigan
Tabor, Harry D., A.B.	<i>Johns Hopkins University, 1961</i>	Maryland
Tokar, Elliot S., B.S.	<i>University of Maryland, 1960</i>	Maryland
Toskes, Phillip P., A.B.	<i>Johns Hopkins University, 1961</i>	Maryland
Traum, Susan, A.B.	<i>University of Maryland, 1961</i>	Illinois
Virgilio, Richard W., A.B.	<i>Colgate University, 1960</i>	Maryland
Weber, Arthur J., Jr., B.S.	<i>University of Maryland, 1961</i>	Maryland
Weinstock, Joseph S., A.B.	<i>University of Maryland, 1956</i>	Maryland
Whelan, Philip J., B.S.	<i>George Washington Univ., 1961</i>	Pennsylvania
White, Daniel H., B.S.	<i>Mt. St. Mary's College, 1961</i>	New Jersey
Whitelock, Victoria P., B.S.	<i>University of Maryland, 1959</i>	N. Carolina
Whitelock, Robert N., B.S.	<i>Loyola College, 1961</i>	S. Carolina
Wimmer, William C., A.B.	<i>Western Maryland College, 1961</i>	Virginia
Wingfield, Thomas W., A.B.	<i>Univ. of North Carolina, 1961</i>	N. Carolina

## THIRD YEAR

Amitin, Sigmund Alan, B.S.	<i>University of Maryland, 1959</i>	Maryland
Ashman, Michael Nathan, A.B.	<i>Johns Hopkins University</i>	Maryland
Ashman, Philip Miller, A.B.	<i>Hobart College, 1960</i>	Maryland
Asplen, Charles Henry, B.S.	<i>University of Maryland, 1954</i>	Maryland
Baker, Lynn Bradley, A.B.	<i>Franklin &amp; Marshall, 1960</i>	Maryland
Becker, Larry, B.A.	<i>Johns Hopkins University, 1960</i>	Maryland
Belinic, Mona B., B.S.	<i>University of Maryland, 1960</i>	Maryland
Bigbee, Thomas Paul, B.S.	<i>University of Maryland, 1959</i>	Maryland
Biggs, Richard D., Jr., A.B.	<i>Princeton University, 1960</i>	Maryland
Bohlman, Henry Hubert, B.S.	<i>Washington &amp; Lee, 1959</i>	Maryland
Braver, Alma L., A.B.	<i>Goucher College, 1959</i>	New York
Byers, William Seal, B.S.	<i>Franklin &amp; Marshall, 1960</i>	Maryland
Cohen, Barry Marvin, A.B.	<i>Duke University, 1960</i>	Maryland
Cohen, Miriam Leah	<i>University of Maryland</i>	Maryland
Colon, Gustavo Alberto, B.A.	<i>Johns Hopkins University, 1960</i>	Puerto Rico
Conroy, John Joseph, B.S.	<i>Loyola College, 1960</i>	Maryland
Culotta, Dominic Anthony, B.S.	<i>Loyola College, 1960</i>	Maryland
Cushard, William G., Jr., A.B.	<i>University of Maryland, 1960</i>	Maryland



<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Dagon, Ann Blaise, A.B.	<i>George Washington Univ., 1959</i>	Maryland
Dayton, David Amsbry, B.S.	<i>Bucknell University, 1960</i>	Pennsylvania
Dear, William Allan, Jr., B.S.	<i>University of Maryland, 1959</i>	Maryland
deBeck, Thomas Wade, A.B.	<i>University of Virginia, 1960</i>	Maryland
Deinlein, Donald Anthony, B.S.	<i>Loyola College, 1959</i>	Maryland
Detorie, Frank Mariano, A.B.	<i>Loyola College, 1960</i>	Maryland
Donohue, Salvatore Robert, A.B.	<i>Loyola College, 1959</i>	Maryland
Doyle, Robert Lawrence, B.S.	<i>Loyola College, 1959</i>	Maryland
Francis, Earlie Hill, Jr., M.S.	<i>Howard University, 1960</i>	Maryland
Gingell, Robert Loring, B.S.	<i>American University, 1960</i>	Maryland
Glass, Simon David, B.S.	<i>University of Maryland, 1960</i>	Maryland
Goldstein, Marvin Norman, A.B.	<i>Western Maryland College, 1960</i>	Maryland
Gordon, Albert Morton, B.S.	<i>University of Maryland, 1960</i>	Maryland
Gresser, Lee Edwin, B.S.	<i>University of Maryland, 1960</i>	Maryland
Handwerger, Stuart, A.B.	<i>Johns Hopkins University, 1960</i>	Maryland
Hartman, Ira Franklin, A.B.	<i>West Virginia Wesleyan, 1960</i>	W. Virginia
Hazard, Robert G., B.S.	<i>University of Maryland, 1956</i>	D. C.
Hiley, Paul Culverwell, B.S.	<i>Wheaton College, 1960</i>	Maryland
Hyman, Nelson, B.S.	<i>University of Chicago, 1959</i>	Maryland
Jones, Euclid Howard, B.S.	<i>Bridgewater College, 1956</i>	Maryland
Kaplan, Rosaline B., B.S.	<i>Queen's College, 1960</i>	New York
Katzen, Leeds, B.S.	<i>University of Maryland, 1958</i>	Maryland
Kaufman, Matthew Lewis, A.B.	<i>University of Michigan, 1960</i>	New York
Kelly, Richard John, B.S.	<i>University of Maryland, 1959</i>	Maryland
Kilchenstein, Michael W., B.S.	<i>Loyola College, 1958</i>	Maryland
Kirchenbauer, Stanley John, B.S.	<i>University of Miami, 1960</i>	Maryland
Krugman, Mark Evans, A.B.	<i>Union College, 1960</i>	Maryland
Lee, Charles Dudley, Jr., B.S.	<i>Morgan State College, 1960</i>	Maryland
Lewers, Donald Theodore, B.S.	<i>University of Maryland, 1960</i>	Maryland
Lindenstruth, Daniel V., B.S.	<i>Georgetown University, 1960</i>	Maryland
Luddy, Ruth Elizabeth, A.B.	<i>Notre Dame of Maryland, 1960</i>	Maryland
Lutz, John Howard, A.B.	<i>Johns Hopkins University, 1960</i>	Maryland
McGinley, Edgar Victor, A.B.	<i>Bucknell University, 1960</i>	New Jersey
Michaelis, Milton	<i>George Washington University</i>	Maryland
Mindel, Joel Sidney, A.B.	<i>Swarthmore College, 1960</i>	Maryland
Muher, Samuel, B.S.	<i>University of Maryland, 1960</i>	Maryland
Munzner, Jo Ann G., A.B.	<i>Notre Dame of Maryland, 1957</i>	Maryland
Myers, Raphael C., Jr., A.B.	<i>University of Virginia, 1957</i>	Virginia
Nagel, Jacob David, B.S.	<i>Loyola College, 1960</i>	Maryland
Nichols, David Monroe, Jr., A.B.	<i>Washington &amp; Lee Univ., 1958</i>	Maryland
Pereyo, Neville, B.S.	<i>University of Puerto Rico, 1960</i>	Puerto Rico
Pleet, Albert Bernard	<i>University of Maryland</i>	Maryland
Porter, Thomas Jenks, B.S.	<i>San Diego State College, 1957</i>	California
Protzel, Richard Marvin, A.B.	<i>University of Virginia, 1960</i>	New Jersey
Quinones, Jose Dulcidio, B.S.	<i>University of Puerto Rico, 1960</i>	Puerto Rico
Ratino, John Manfred, B.S.	<i>University of Maryland, 1959</i>	Maryland
Reckson, Charles Evans	<i>University of Maryland</i>	Florida
Reichmister, Jerome Paul, A.B.	<i>Johns Hopkins University, 1960</i>	Maryland
Robbins, Edgar Lee, A.B.	<i>Dartmouth College, 1960</i>	Maryland
Rosenbaum, Barry Norman, B.S.	<i>University of Maryland, 1960</i>	Maryland
Ruley, Edward Jerome, B.S.	<i>The Citadel, 1960</i>	Maryland
Saiontz, Marvin Frederick, B.S.	<i>University of Maryland, 1959</i>	Maryland
Schmitter, Eric Dean	<i>University of Maryland</i>	Maryland
Schwartz, Allen David, A.B.	<i>Johns Hopkins University, 1960</i>	Maryland
Schwartz, William E., A.B.	<i>Johns Hopkins University, 1960</i>	Maryland
Seidman, Sidney Bernard, B.S.	<i>University of Maryland, 1957</i>	Maryland

# 108 *Matriculants*

<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Shelton, Perry Shipley	<i>University of Maryland</i>	Maryland
Shugarman, Richard G., A.B.	<i>Johns Hopkins University, 1960</i>	Maryland
Solomon, Lawrence Franklin	<i>University of Maryland</i>	Maryland
Spector, Gershon, A.B.	<i>Johns Hopkins University, 1960</i>	Maryland
Standiford, Harold Clark, A.B.	<i>Johns Hopkins University, 1960</i>	Maryland
Stoner, Robert Elmer, A.B.	<i>Rutgers University, 1960</i>	Maryland
Tuerk, Jonathan David, A.B.	<i>Dartmouth College, 1960</i>	Maryland
Weagly, John Kirkwood, A.B.	<i>Western Maryland College, 1960</i>	Maryland
Weir, Walter Douglas, A.B.	<i>St. John's College, 1958</i>	Maryland
Wilson, Sherwood Ewell, B.S.	<i>New York University, 1959</i>	Maryland
Wood, Donald Michael, B.S.	<i>Notre Dame College, Ind., 1960</i>	Maryland
Yalam, Arnold Robert, A.B.	<i>Johns Hopkins University, 1960</i>	New York
Young, Marston Alexis, A.B.	<i>Johns Hopkins University, 1959</i>	Maryland

## FOURTH YEAR

Adels, Barry Robert, A.B.	<i>University of Rochester, 1958</i>	New York
Beazley, Robert Montague, B.S.	<i>University of Maryland, 1959</i>	Maryland
Belinic, Richard John, A.B.	<i>Dartmouth College, 1959</i>	Maryland
Brauer, Lee David, A.B.	<i>Princeton University, 1959</i>	New Jersey
Braver, David Allan, B.S.	<i>Ohio State University, 1957</i>	Maryland
Brazauskas, Nijole V., B.S.	<i>University of Maryland, 1961</i>	Maryland
Bryan, Everett Davidson, B.S.	<i>Franklin &amp; Marshall, 1958</i>	Delaware
Bufalino, Russell Charles, B.S.	<i>University of Maryland, 1959</i>	Maryland
Busch, Eugene Martin, B.S.	<i>Franklin &amp; Marshall, 1959</i>	Maryland
Byers, Robert Maxwell, A.B.	<i>Duke University, 1959</i>	N. Carolina
Campbell, Harold J., Jr., B.S.	<i>University of Maryland, 1959</i>	Maryland
Cohen, Stephen Peter, A.B.	<i>Middlebury College, 1959</i>	New Jersey
Coyne, John Michael, B.S.	<i>University of Maryland, 1959</i>	Maryland
Culp, Clifford Lewis, Jr., A.B.	<i>Johns Hopkins University, 1957</i>	Maryland
Czechowicz, Dorynne Joan, B.S.	<i>University of Maryland, 1959</i>	New Hampshire
Dawkins, Albert T., Jr., B.S.	<i>Western Maryland College, 1959</i>	Maryland
Dinker, Robert E., B.S.	<i>University of Maryland, 1958</i>	Maryland
Doerfer, John Page, B.S.	<i>George Washington Univ., 1959</i>	Maryland
Elder, Thaddeus Harry, Jr., B.S.	<i>University of Maryland, 1949</i>	Maryland
Friedman, Melvin Miles, B.S.	<i>University of Maryland, 1959</i>	Maryland
Fringer, David L. B., Jr., A.B.	<i>Princeton University, 1959</i>	Maryland
Fuchs, Mrs. Alice Marie S., B.S.	<i>College of Mt. St. Vincent, 1959</i>	Maryland
Fuchs, Peter C., B.S.	<i>Georgetown University, 1957</i>	Maryland
Garrison, Leland Michael, A.B.	<i>Stanford University, 1959</i>	California
Giangrandi, Robert B., B.S.	<i>Loyola College, 1959</i>	Maryland
Gilden, Donald Harvey, A.B.	<i>Dartmouth College, 1959</i>	Maryland
Goldman, Richard Louis, B.S.	<i>Johns Hopkins University, 1958</i>	Maryland
Gordon, Joep Spender, A.B.	<i>Johns Hopkins University, 1959</i>	Maryland
Harvey, C. A., B.S.	<i>University of Maryland, 1959</i>	Virginia
Hayes, Michael Gilbert, B.S.	<i>University of Maryland, 1959</i>	Maryland
Heister, Alice B., A.B.	<i>University of Maryland, 1959</i>	Maryland
Hess, David Robert, Jr.	<i>Franklin &amp; Marshall College</i>	Pennsylvania
Hoffman, Arnold James, B.S.	<i>University of Maryland, 1959</i>	Maryland

<i>Name</i>	<i>Undergraduate School</i>	<i>Home State</i>
Howard, Wm. Hand B., A.B.	<i>Johns Hopkins University, 1959</i>	Maryland
Inglesby, Thos. Vincent, B.S.	<i>Mt. St. Mary's College, 1959</i>	Maryland
Insley, Philip Asbury, Jr., B.S.	<i>Washington &amp; Lee, 1959</i>	Maryland
Joeres, Manfred Klaus, A.B.	<i>Western Maryland College, 1959</i>	Maryland
Jules, Arnold Jay, A.B.	<i>Duke University, 1959</i>	Maryland
Kaminski, Paul Felix, B.S.	<i>Loyola College, 1959</i>	Maryland
Kennan, Richard B., Jr., B.S.	<i>Wofford College, 1958</i>	Maryland
King, Wm. Anthony, B.S.	<i>Loyola College, 1959</i>	Maryland
Knopf, Merrill Monroe, B.S.	<i>Loyola College, 1959</i>	Maryland
Lamb, Arthur Clifton, Jr., A.B.	<i>Brown University, 1959</i>	Maryland
Levin, Michael Lee, A.B.	<i>Johns Hopkins University, 1959</i>	Maryland
Lindgren, Carleton Jay, B.S.	<i>Iowa State College, 1956</i>	Maryland
Lindstrom, Eric Everett, B.S.	<i>Wheaton College, 1959</i>	Montana
Magee, Kenneth George, B.S.	<i>University of Maryland, 1958</i>	New Jersey
McLean, Barbara Ann, A.B.	<i>Notre Dame of Maryland, 1959</i>	Maryland
Merchant, Ralph Preston, A.B.	<i>Johns Hopkins University, 1959</i>	Maryland
Minken, Stanley Lewis, B.S.	<i>University of Maryland, 1958</i>	Maryland
Mock, Chas. Robert, A.B.	<i>University of Maryland, 1956</i>	Maryland
Moore, Philip Harvey, B.S.	<i>Loyola College, 1959</i>	Maryland
Mules, Janet Elaine, A.B.	<i>Bryn Mawr College, 1956</i>	Maryland
Okerlund, Michael Dennis	<i>University of Maryland</i>	Maryland
Oster, Herbert Gerald, B.S.	<i>University of Maryland, 1958</i>	Maryland
Padilla-Ramirez, Hernan, B.S.	<i>University of Puerto Rico, 1959</i>	Puerto Rico
Perkal, Stuart Allen	<i>Johns Hopkins University, 1959</i>	Maryland
Petrakis, John K., Jr., A.B.	<i>Johns Hopkins University, 1959</i>	Maryland
Piat, Robert David, B.S.	<i>University of Florida, 1956</i>	Florida
Prendergast, Neal Joseph, B.S.	<i>University of Notre Dame, 1959</i>	Maryland
Rasmussen, Brian Louis, B.S.	<i>University of California, 1958</i>	Utah
Ray, Horace Truman, Jr., A.B.	<i>University of N. Carolina, 1958</i>	N. Carolina
Rivosecchi, Leonard G., B.S.	<i>Queens College, N. Y., 1955</i>	New York
Rodriquez, Hector Luis, B.S.	<i>Georgetown University, 1959</i>	Puerto Rico
Roland, Norman Barry	<i>University of Maryland, 1959</i>	Maryland
Rosen, Norman Benjamin, A.B.	<i>Johns Hopkins University, 1959</i>	Maryland
Rubenstein, Benj. Barry, B.S.	<i>University of Maryland, 1959</i>	Maryland
St. John, Miles Eugene, B.S.	<i>Johns Hopkins University, 1958</i>	Maryland
Saneman, Paul Philip, B.S.	<i>Loyola College, 1959</i>	Maryland
Schwartz, Mayer, A.B.	<i>Brandeis University, 1959</i>	Maryland
Shervington, Walter W., A.B.	<i>University of Pennsylvania, 1959</i>	Maryland
Smith, Arthur Mattus, A.B.	<i>Cornell University, 1959</i>	New York
Sollod, Mitchell Carl	<i>University of Maryland, 1958</i>	Maryland
Spalt, Harry Alfred, A.B.	<i>Rutgers University, 1953</i>	Maryland
Stecher, Karl, Jr., A.B.	<i>Harvard College, 1959</i>	Maryland
Stojanovich, Kosta Bragoljub	<i>University of Maryland, 1958</i>	New York
Tountas, Peter Chris, B.S.	<i>University of Maryland, 1958</i>	Maryland
Travisano, Frank Joseph, A.B.	<i>Johns Hopkins University, 1958</i>	Maryland
Weatherly, DeWitt Lee, A.B.	<i>University of Maryland, 1959</i>	Maryland
Werner, Edward Cornelius, A.B.	<i>Yale University, 1959</i>	New York
Williams, McRae Whitaker, A.B.	<i>Yale University, 1958</i>	Maryland
Wilson, Joseph Robert, A.B.	<i>Johns Hopkins University, 1959</i>	Maryland
Wolf, Aron, A.B.	<i>Dartmouth College, 1959</i>	New Jersey
Wolski, Eugene Joseph, B.S.	<i>Loyola College, 1959</i>	Maryland
Wyte, Steven Robert, B.S.	<i>American University, 1959</i>	Maryland

# Summary and Geographical Distribution of Matriculants

## Summary

SEPTEMBER 14, 1962 TO JUNE 8, 1963

	<i>Male</i>	<i>Female</i>	<i>Total</i>
FOURTH YEAR CLASS.....	97	6	85
THIRD YEAR CLASS.....	80	7	87
SECOND YEAR CLASS.....	93	7	100
FIRST YEAR CLASS.....	122	7	129
	<u>374</u>	<u>27</u>	<u>401</u>

## Geographical Distribution

California	5	Ohio	2
Connecticut	2	Oregon	2
Delaware	1	Pennsylvania	10
District of Columbia	4	South Carolina	1
Florida	2	South Dakota	1
Idaho	1	Utah	5
Illinois	2	Virginia	3
Maryland	283	Washington	1
Massachusetts	4	West Virginia	5
Michigan	4	Wisconsin	2
Missouri	2	Puerto Rico	9
Montana	1	<i>Foreign</i>	
New Hampshire	1	Bermuda	1
New Jersey	15	Canada	1
New York	24	Denmark	1
North Carolina	5	Hong Kong	1



# Intramural Postgraduate Students—1961-62

## ADVANCES IN MEDICAL SCIENCE

<i>Name</i>	<i>Graduate of</i>	<i>Present Address</i>
Willard Applefeld, M.D.	<i>University of Maryland</i>	Balto., Md.
Toribio G. Arribas, M.D.	<i>Madrid Med. School, Spain</i>	Sykesville, Md.
Emma L. Barbarich, M.D.	<i>Czechoslovakian Med. School</i>	Leonardtown, Md.
Jesus David Bohórquez, M.D.	<i>Univ. de los Andes, Venez.</i>	Balto., Md.
Herman Bostoen, M.D.	<i>University of Louvain, Belgium</i>	Balto., Md.
Mario Comas, M.D.	<i>Havana University</i>	Balto., Md.
Cesar A. Cuestas, M.D.	<i>Cordoba Univ., Argentina</i>	Balto., Md.
Luis M. Cuza, M.D.	<i>Havana University</i>	Nort East, Md.
Charles R. Davidson, M.D.	<i>Howard University</i>	Balto., Md.
Narciso V. del Carmen, M.D.	<i>Univ. of Philippines</i>	Balto., Md.
Francisco C. Flores, M.D.	<i>Far Eastern University, P.I.</i>	Balto., Md.
Esteban G. Frieria, M.D.	<i>Far Eastern University, P.I.</i>	Balto., Md.
Peter Christoff Ganeff, M.D.	<i>Strasbourg-Lille Univ.</i>	Balto., Md.
Abraham B. Hurwitz, M.D.	<i>University of Maryland</i>	Balto., Md.
Arnold Kolta, M.D.	<i>Pecs Univ., Hungary</i>	Balto., Md.
Erika P. Kraemer, M.D.	<i>Univ. of Munster, Germany</i>	Laurel, Md.
Kurt Levy, M.D.	<i>Dusseldorf Univ., Germany</i>	Balto., Md.
K. Mammen, M.D.	<i>Stanley Univ., India</i>	Balto., Md.
A. Marzooghian, M.D.	<i>Tehran Medical School</i>	Balto., Md.
J. Nelson McKay, M.D.	<i>University of Maryland</i>	Balto., Md.
Irwin H. Moss, M.D.	<i>University of Maryland</i>	Balto., Md.
Eugene H. Owens, M.D.	<i>Howard University</i>	Balto., Md.
Julio Postigo, M.D.	<i>Univ. of Santo Domingo</i>	Balto., Md.
Luis Qeral, M.D.	<i>Univ. of Havana</i>	Balto., Md.
James A. Roberts, M.D.	<i>University of Maryland</i>	Silver Spring, Md.
Percival C. Smith, M.D.	<i>Howard University</i>	Balto., Md.
Bernard O. Thomas, Jr., M.D.	<i>University of Maryland</i>	Frederick, Md.
William A. Tyson, M.D.	<i>University of Maryland</i>	Kingsville, Md.
Maybelle L. Weaver, M.D.	<i>Meharry Medical College</i>	Balto., Md.
Eldridge Henry Wolff, M.D.	<i>University of Maryland</i>	Cambridge, Md.
Richard A. Yates, M.D.	<i>George Washington Univ.</i>	Olney, Md.

# BASIC ELECTROCARDIOGRAPHY

<i>Name</i>	<i>Graduate of</i>	<i>Present Address</i>
Alfred Cole, M.D.	<i>University of Virginia</i>	Balto., Md.
Charles D. Connor, M.D.	<i>George Washington Univ.</i>	College Park, Md.
Max C. Frank, M.D.	<i>University of Havana</i>	Balto., Md.
Bertrand C. R. Gau, M.D.	<i>Lyons University, France</i>	Annapolis, Md.
Abram Goldman, M.D.	<i>University of Maryland</i>	Balto., Md.
Bowie Linn Grant, M.D.	<i>University of Maryland</i>	Oakland, Md.
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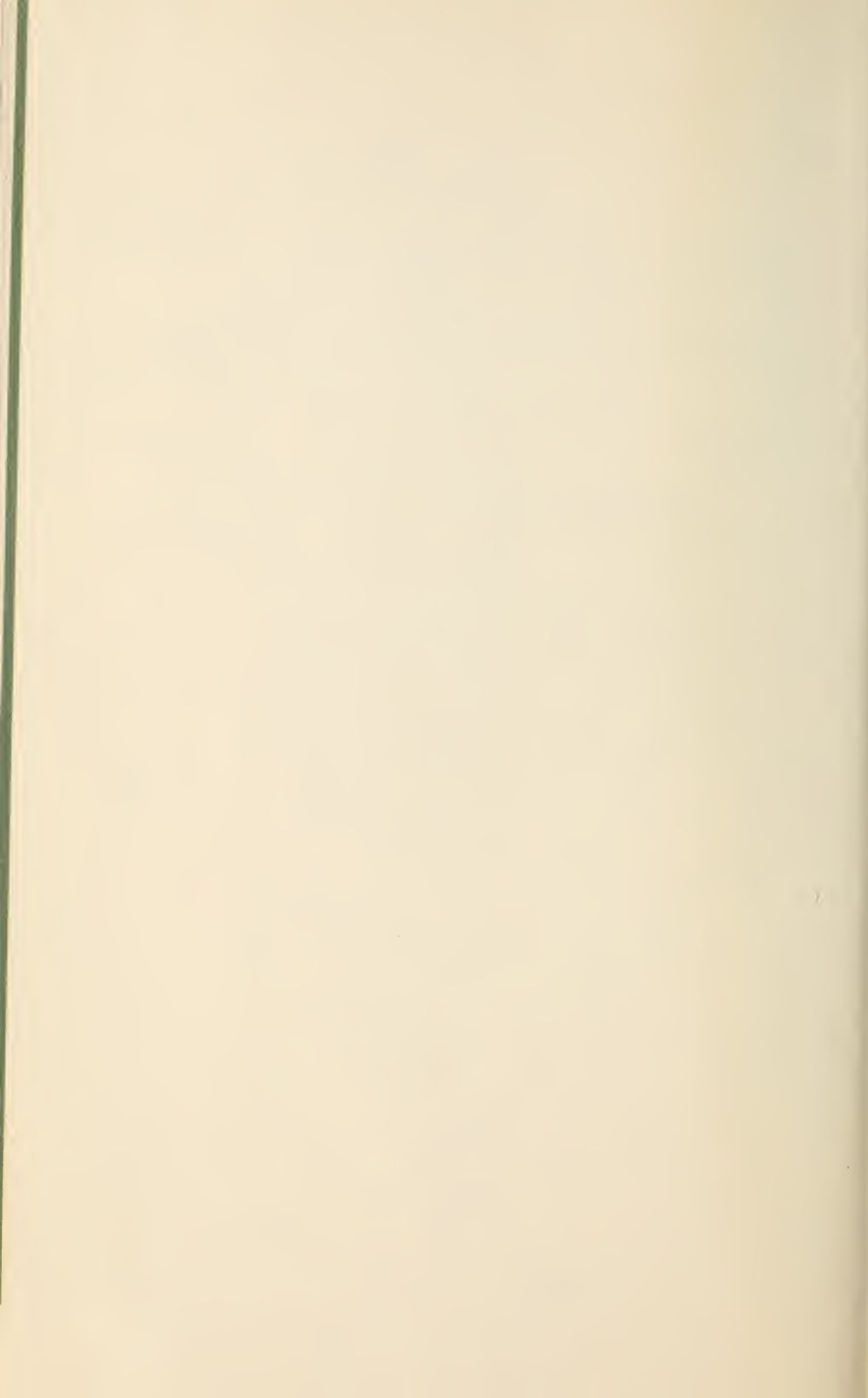
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From "The State and the University"  
the inaugural address of  
President Wilson H. Elkins,  
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